

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



In Vitro Cellular Uptake of ^{99m}Tc-EC-Angiostatin in Breast Cancer Cells

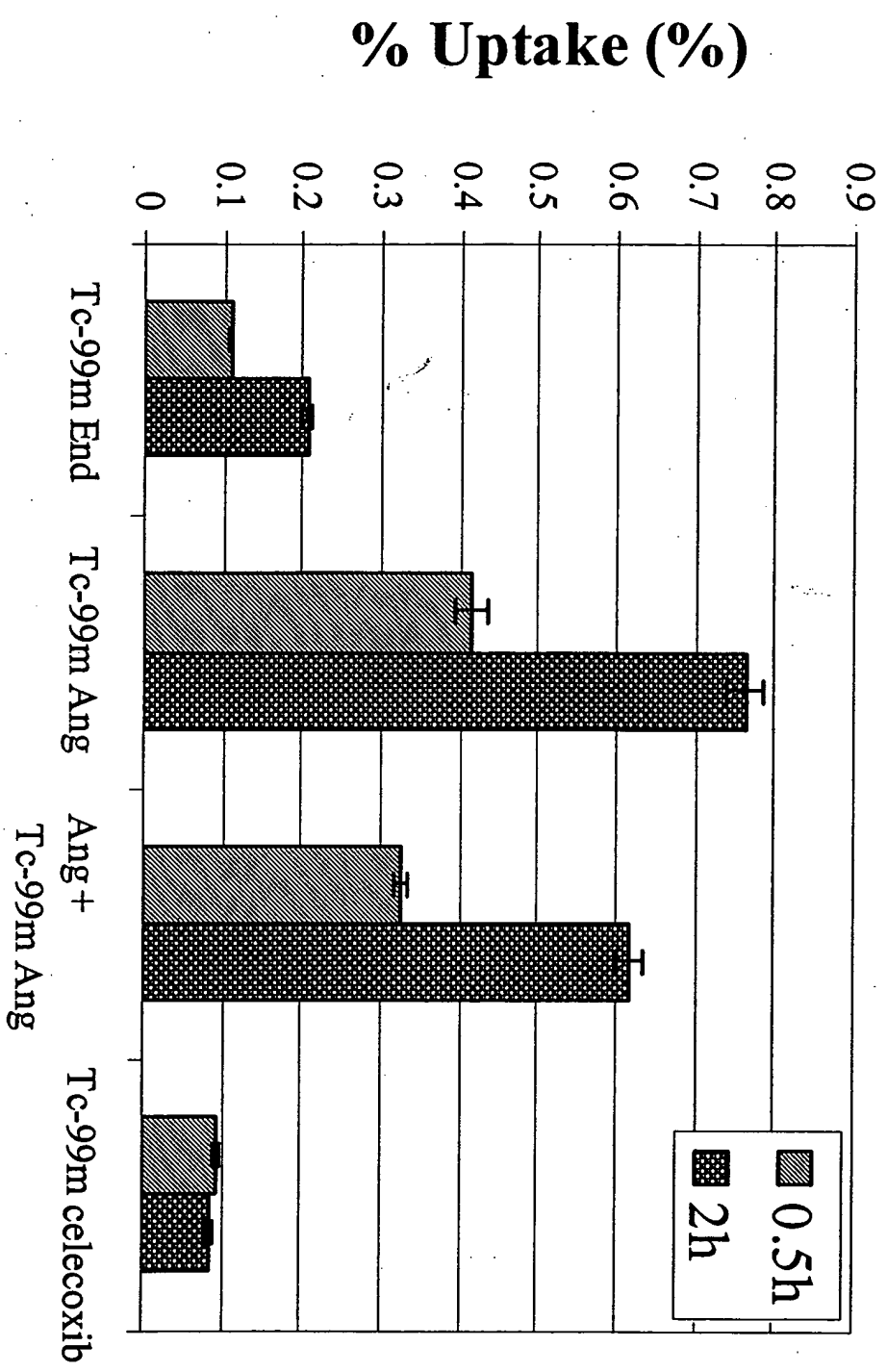


FIG. 1

In Vitro Blocking Study of ^{99m}Tc-EC-Angiostatin Cellular Uptake In Breast Cancer Cells

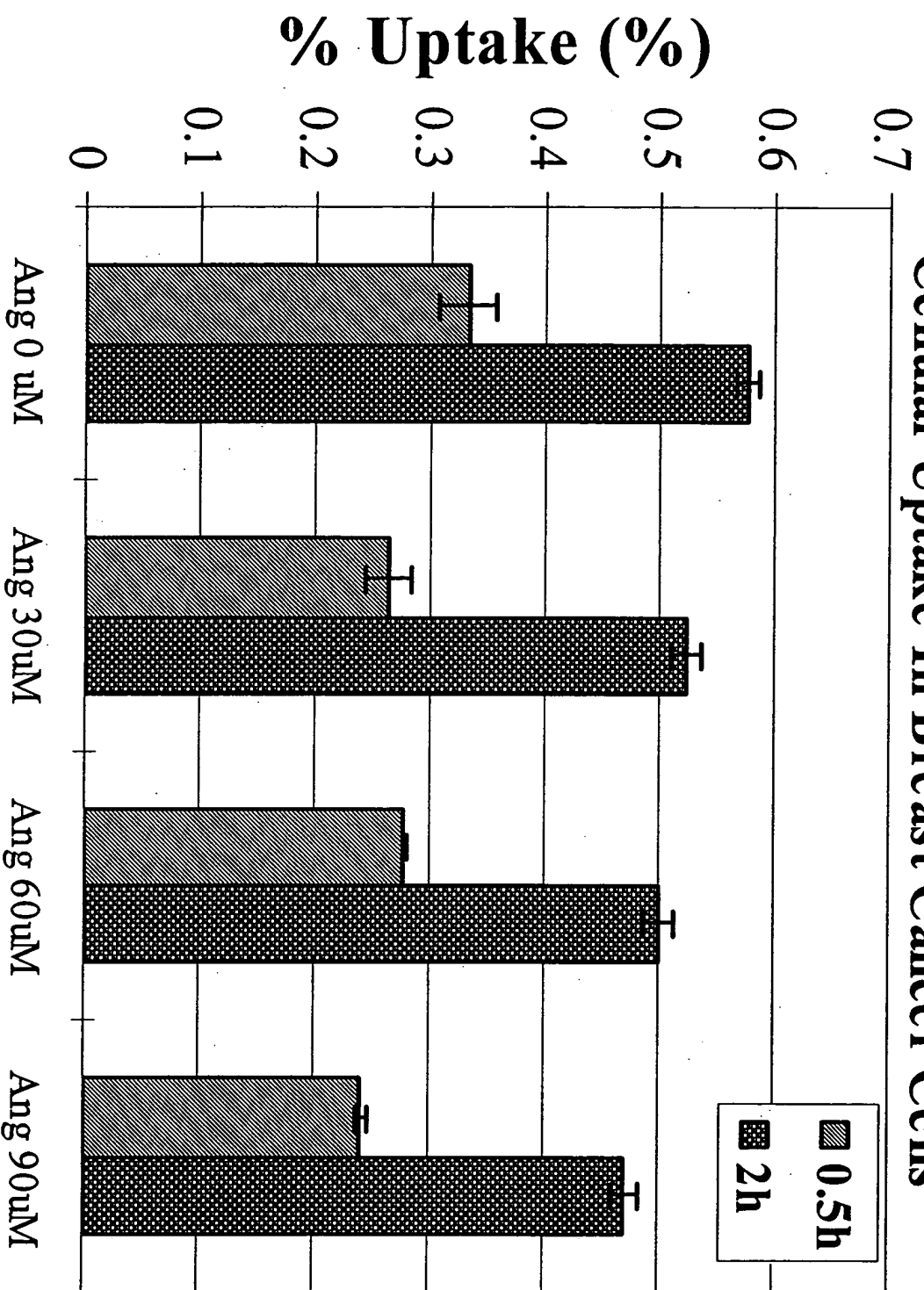


FIG. 2

Percent Inhibition of ^{99m}Tc-EC-Angiostatin in Breast Cancer Cells by Angiostatin at 2 hours

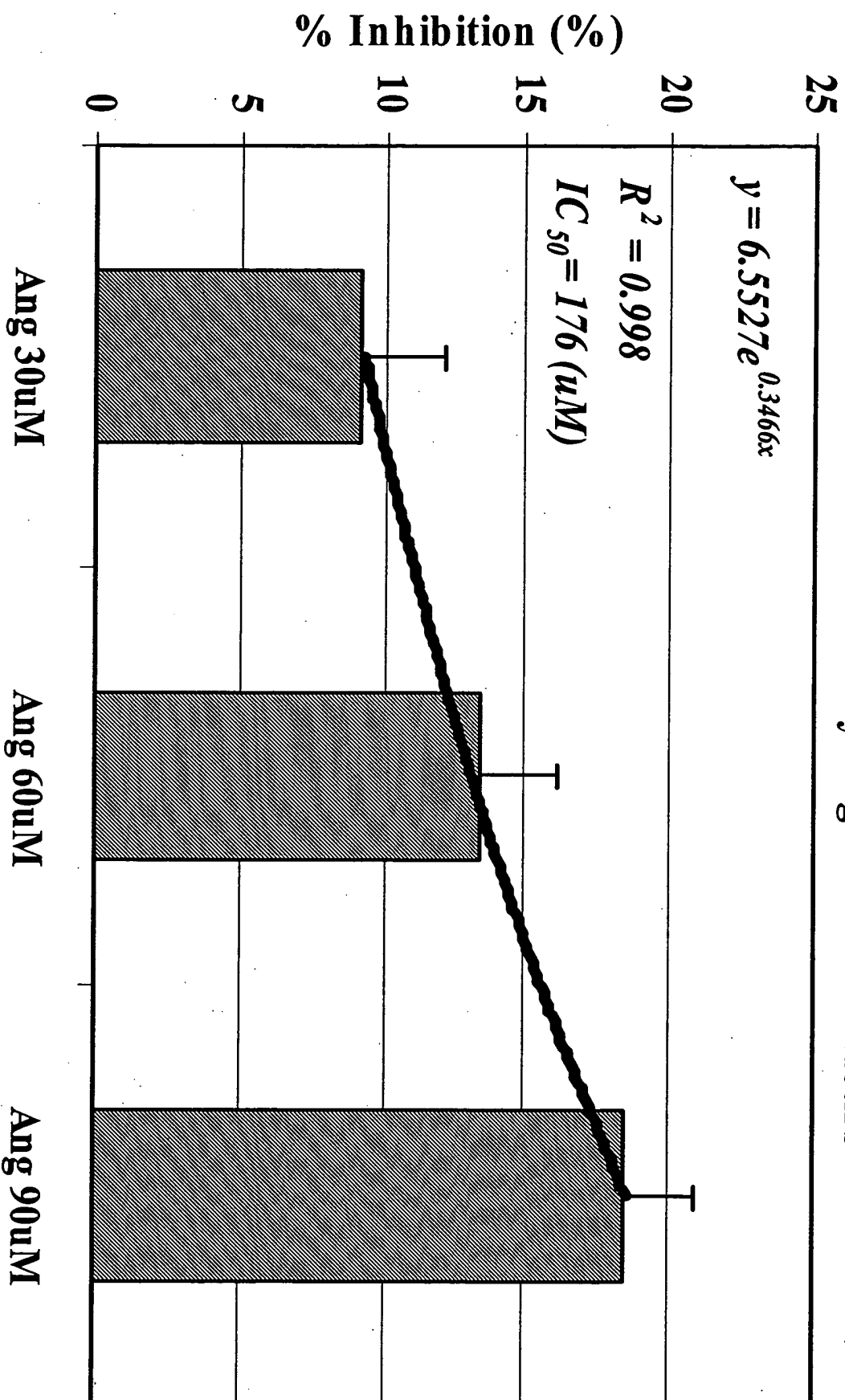


FIG. 3

Tumor Uptake of ^{99m}Tc -EC-Anti-Angiogenic Agents in Breast Tumor-Bearing Rats

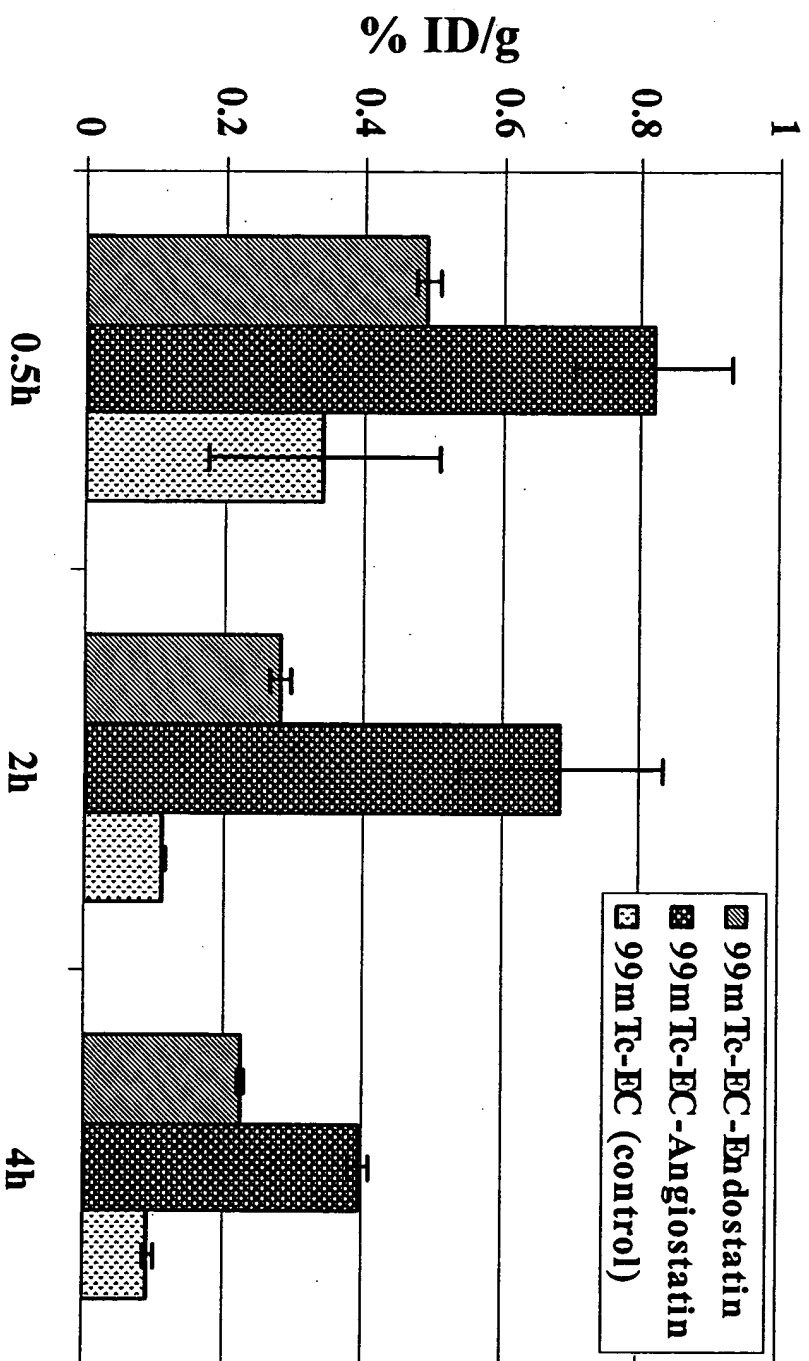


FIG. 4

Tumor-to-Muscle Count Density Ratios of ^{99m}Tc-EC-Anti-Angiogenic Agents

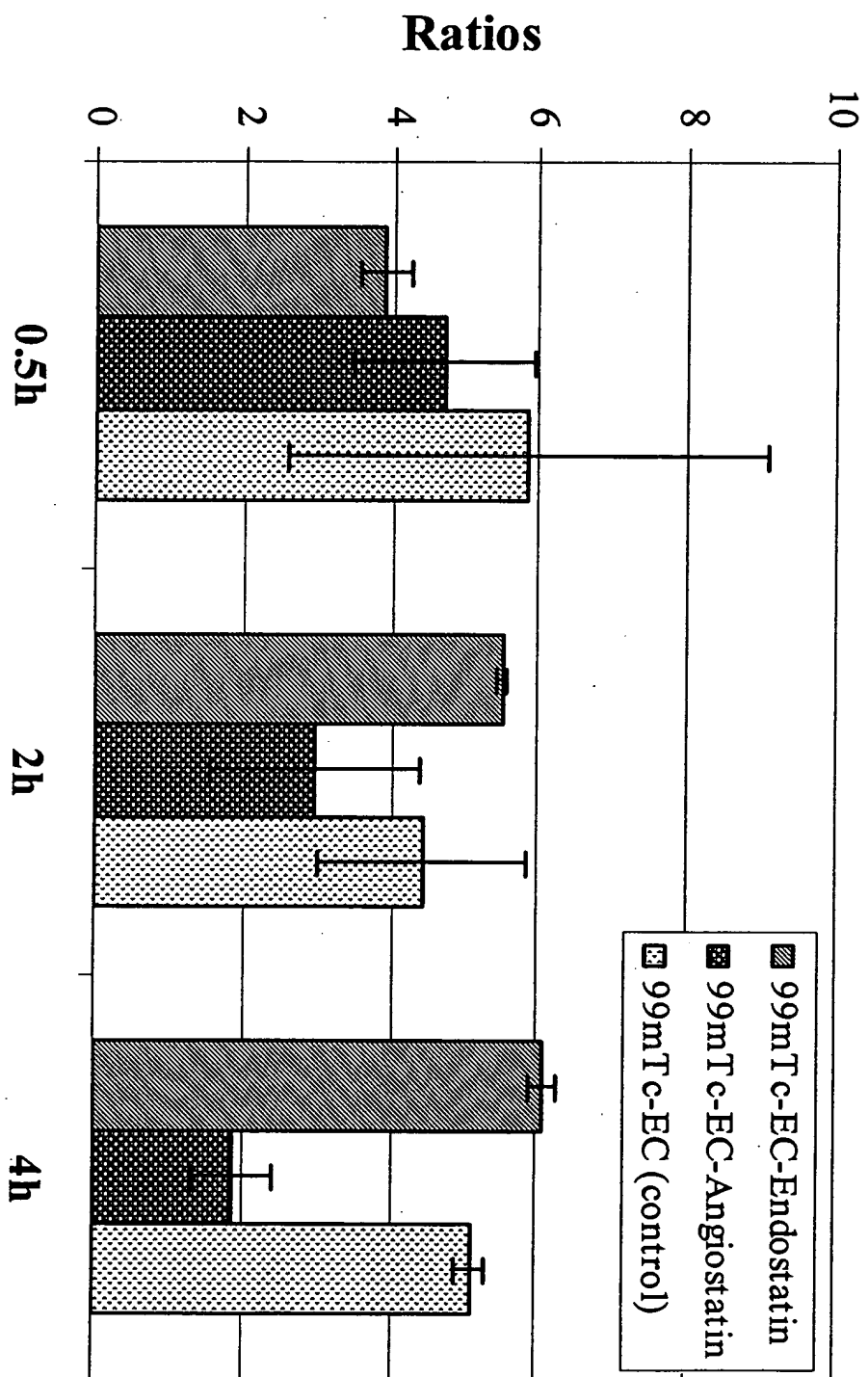


FIG. 5

^{99m}Tc -EC-Angiostatin Images

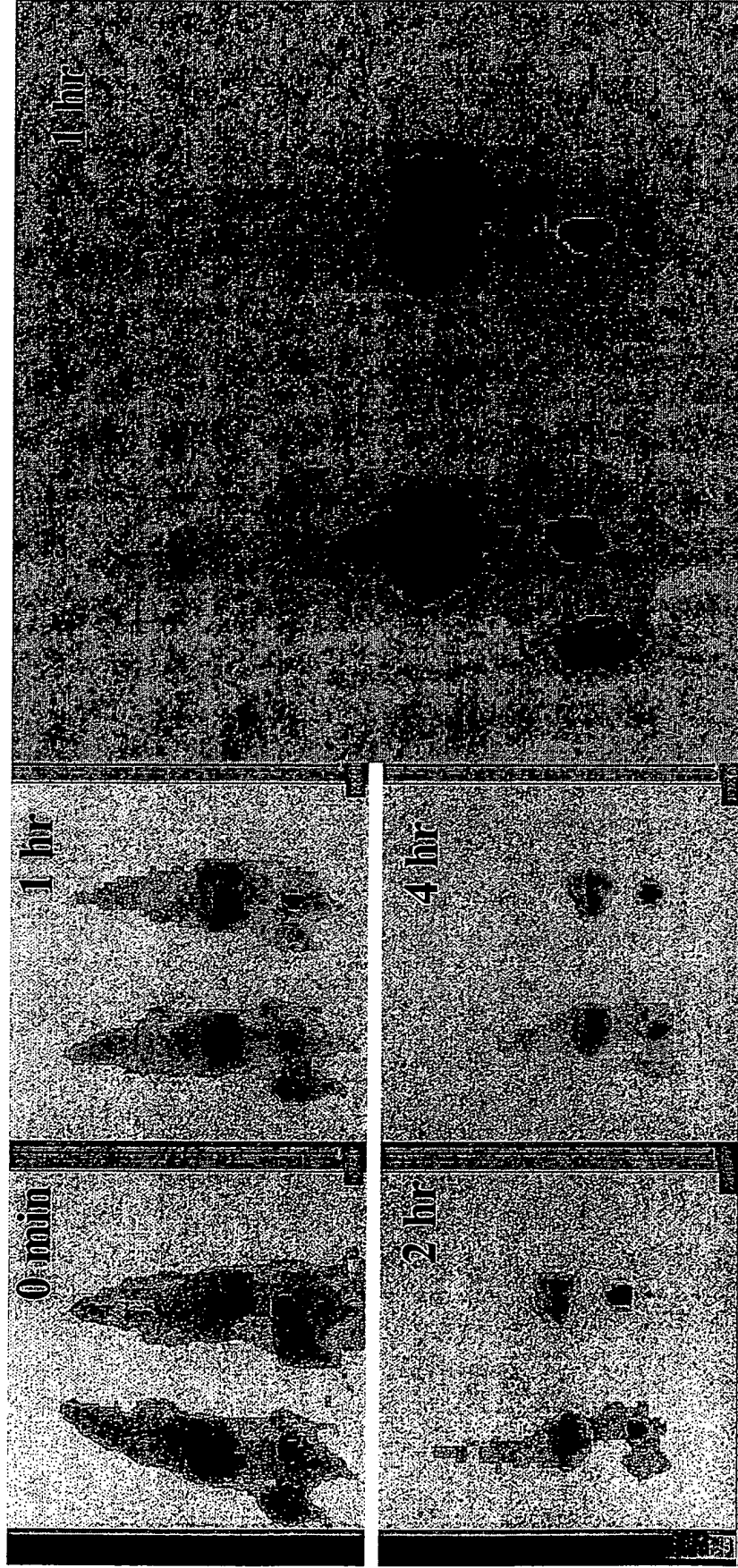


FIG. 6

HPLC Chromatogram of ^{99m}Tc -EC-C225

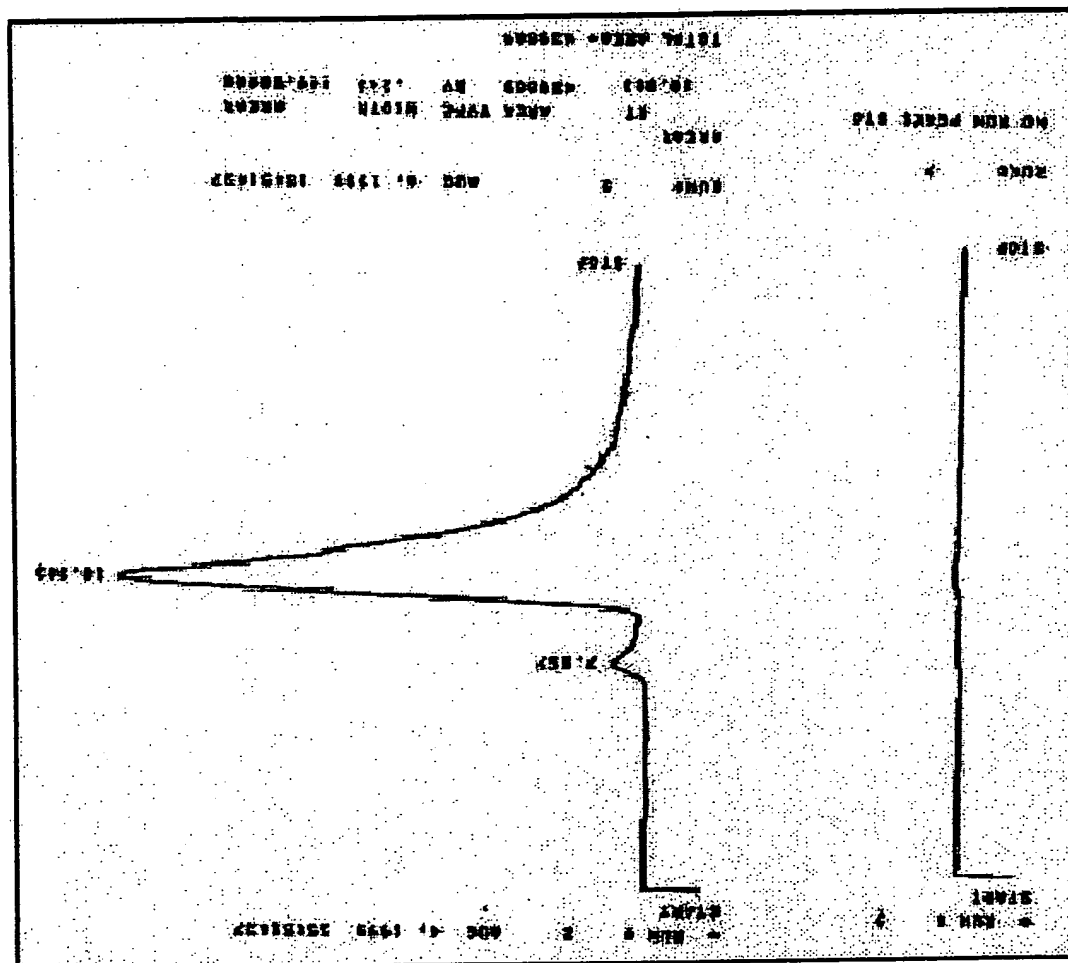


FIG. 7

In Vitro Comparison of EC-C225 and C225

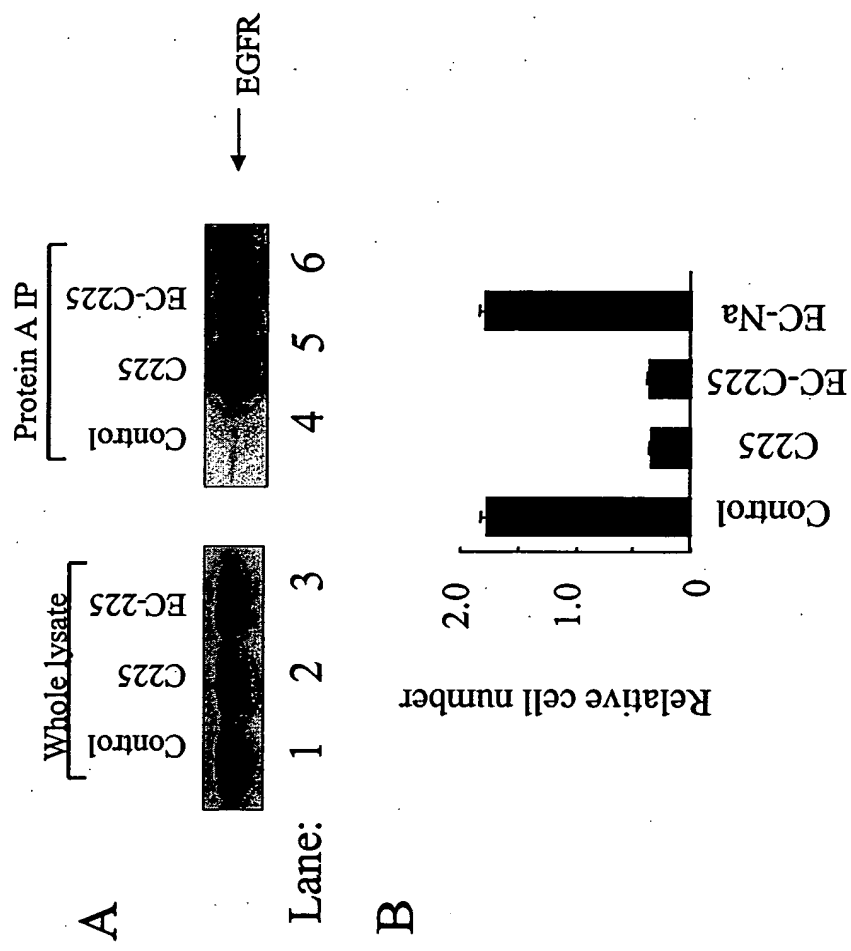


FIG. 8

Uptake of ^{99m}Tc -EC-C225 in A431 Tumor-Bearing Nude Mice

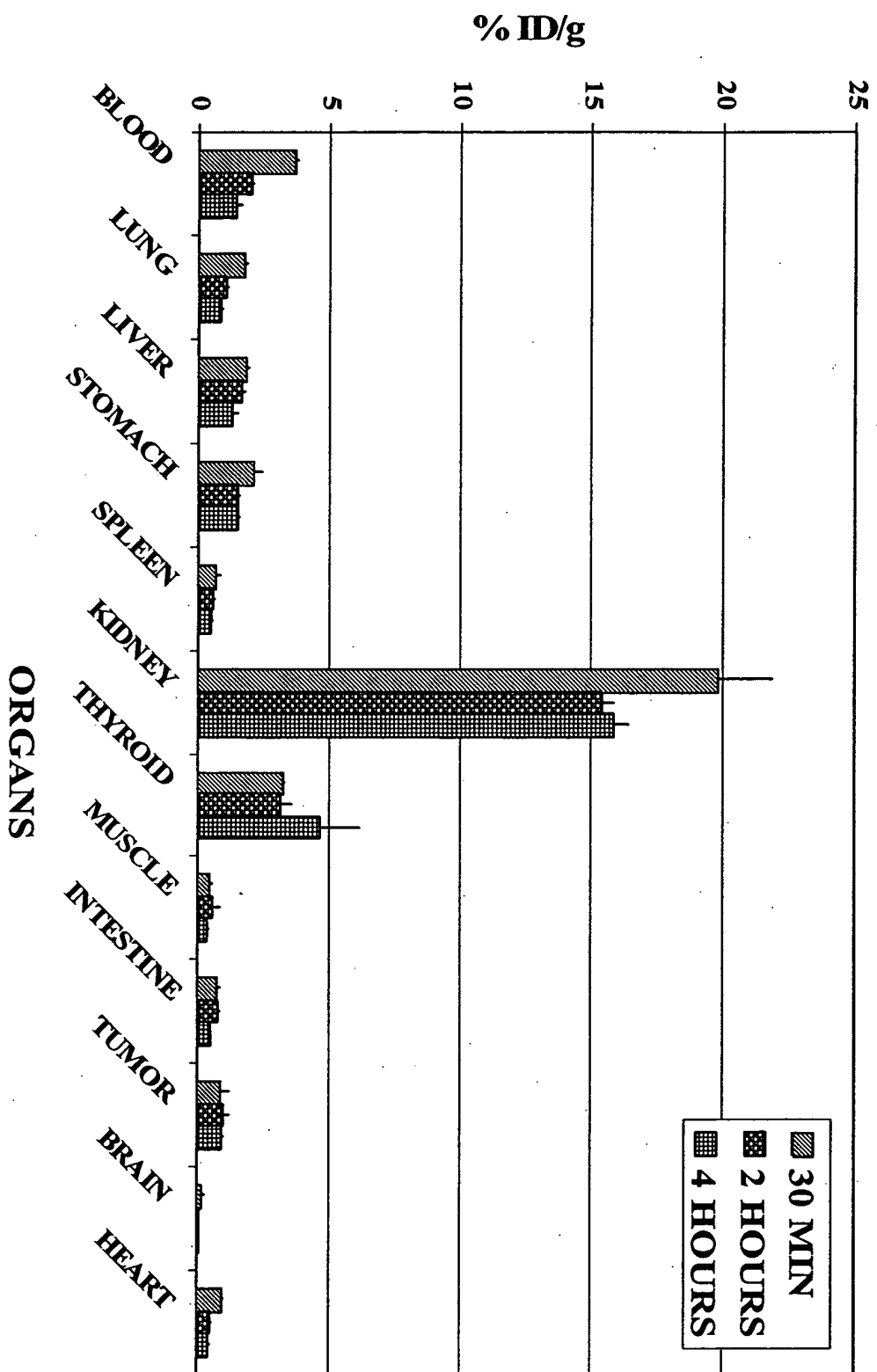


FIG. 9

Tumor-to-Tissue Count Density Ratios of ^{99m}Tc -EC-C225 in A431 Tumor-Bearing Nude Mice

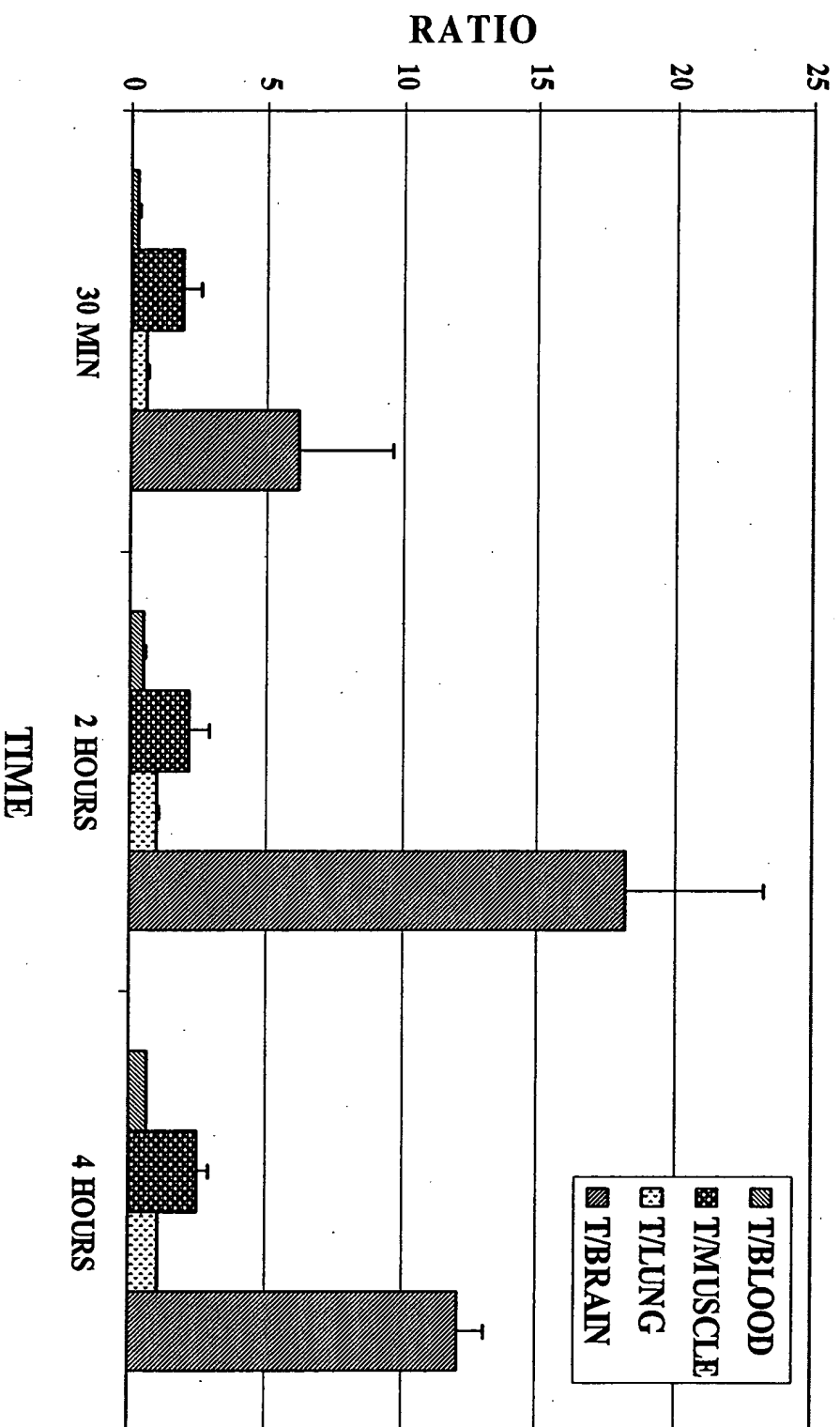
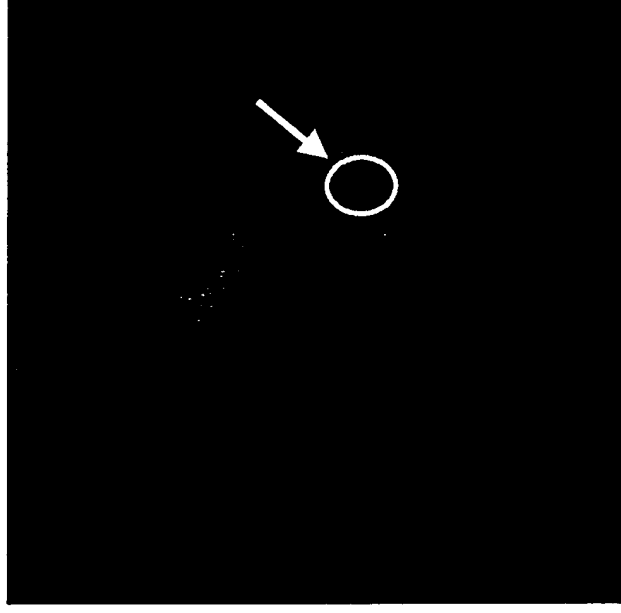
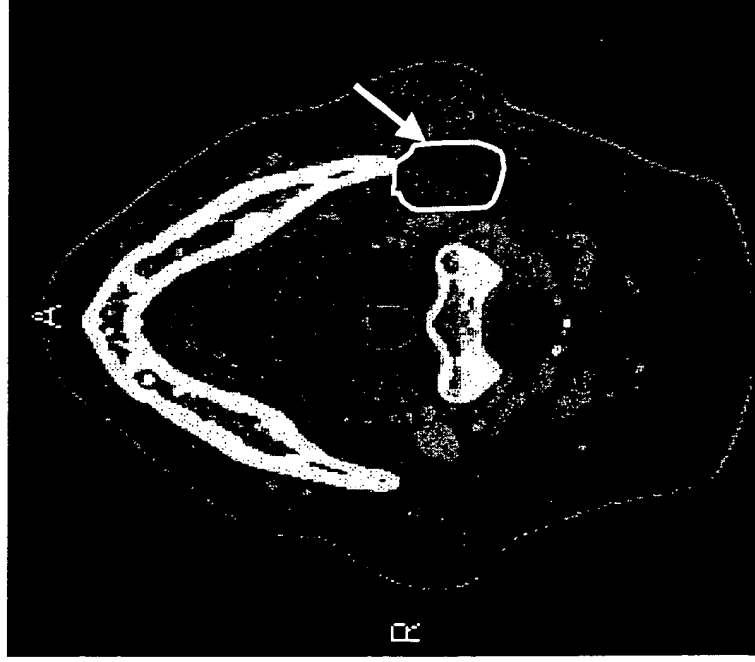


FIG. 10

**$^{99m}\text{Tc-EC-C225}$ Scan for Head&Neck Cancer:
L Jugulodigastric Lymph Node**

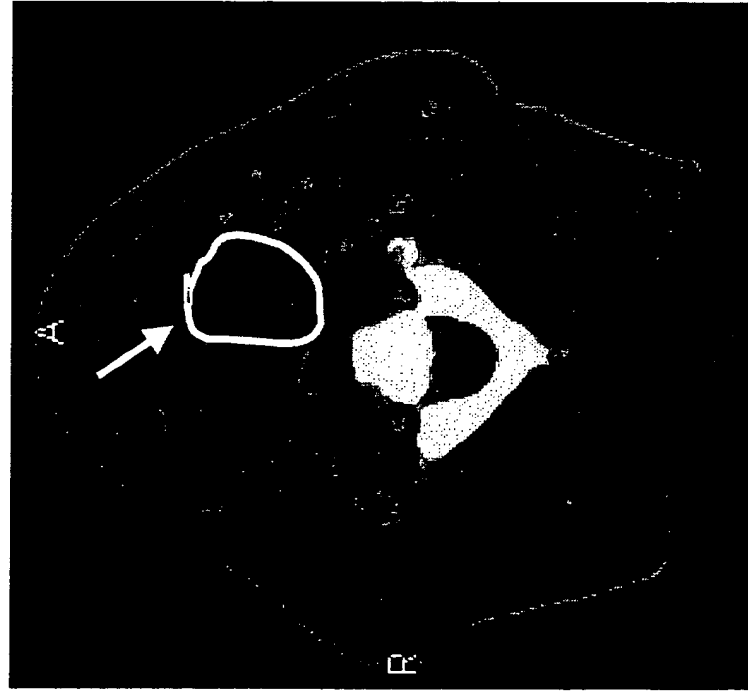


CT: Transverse (15°)

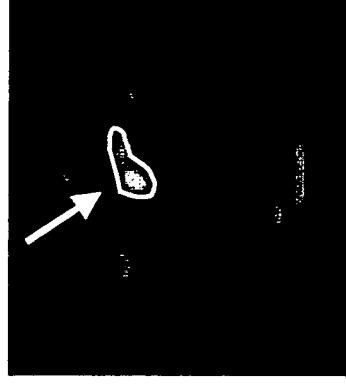
C225 Scan: Transverse (0°)

FIG. 11

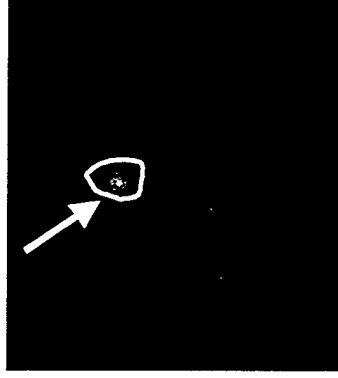
**$^{99m}\text{Tc-EC-C225}$ Scan for Head&Neck Cancer:
L Base of Tongue & Floor of Mouth**



CT: Transverse (15°)



C225 Scan: Coronal



C225 Scan: Transverse (0°)

FIG. 12

Synthesis of EC-celecoxib

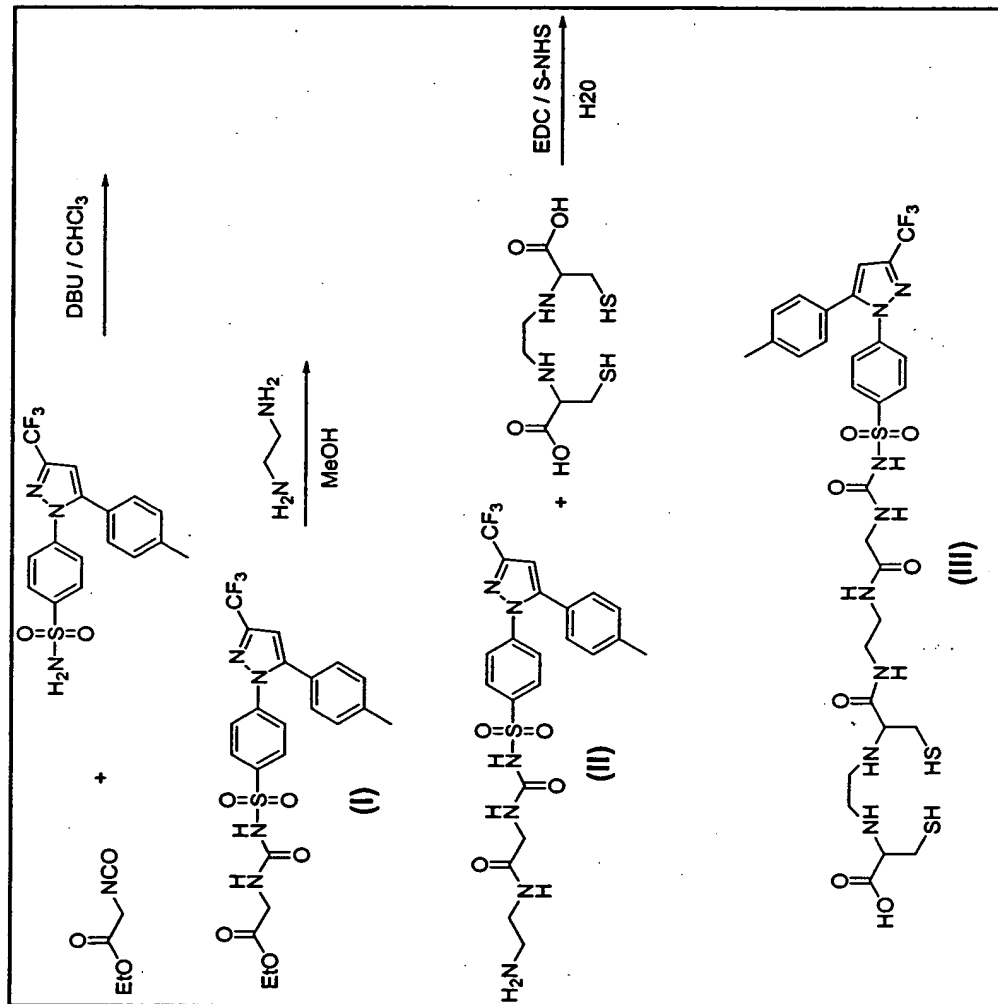


FIG. 13

NMR Spectra Data of EC-celecoxib-Ester

	Observed (ppm)	
7.86 (2H, d, J=8.6Hz)	f	
7.33 (2H, d, J=8.6Hz)	e	
7.03 (2H, d, J=8.2Hz)	c	
6.98 (2H, d, J=8.2Hz)	b	
6.62 (1H, s)	d	
4.41 (2H, s)	g	
4.01 (2H, q, J=7.1Hz)	h	
2.22 (3H, s)	a	
1.11 (3H, t, J=7.1Hz)	i	

FIG. 14

NMR Spectra Data of EC-celecoxib

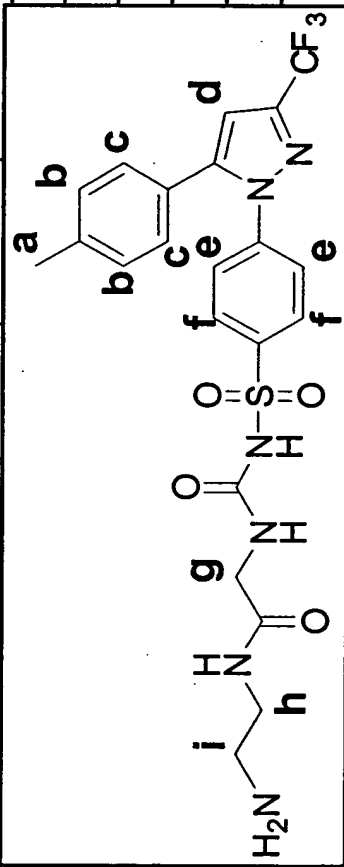
		
	Observed (ppm)	
	7.83 (2H, d, J=8.6Hz)	f
	7.27 (2H, d, J=8.6Hz)	e
	7.03-7.09 (4H, m)	c,b
	6.68 (1H, s)	d
	3.56 (2H, br)	g
	3.38 (2H, br)	h
	2.94 (2H, br)	i
	2.26 (3H, s)	a

FIG. 15

In Vitro Cellular Uptake of ^{99m}Tc -EC-Agents in Breast Cancer Cells

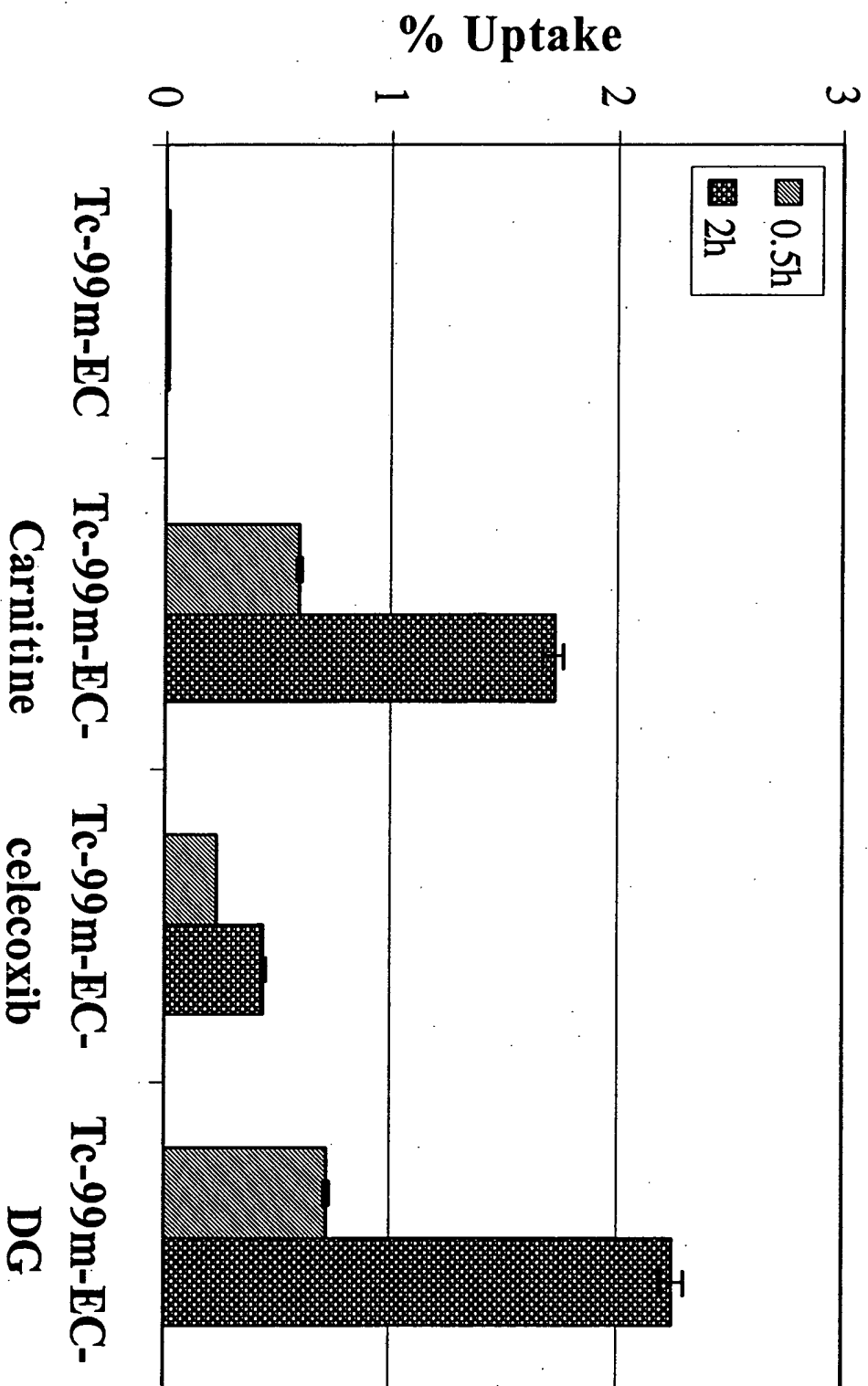


FIG. 16

Scintigraphic Images of ^{99m}Tc -EC-celecoxib

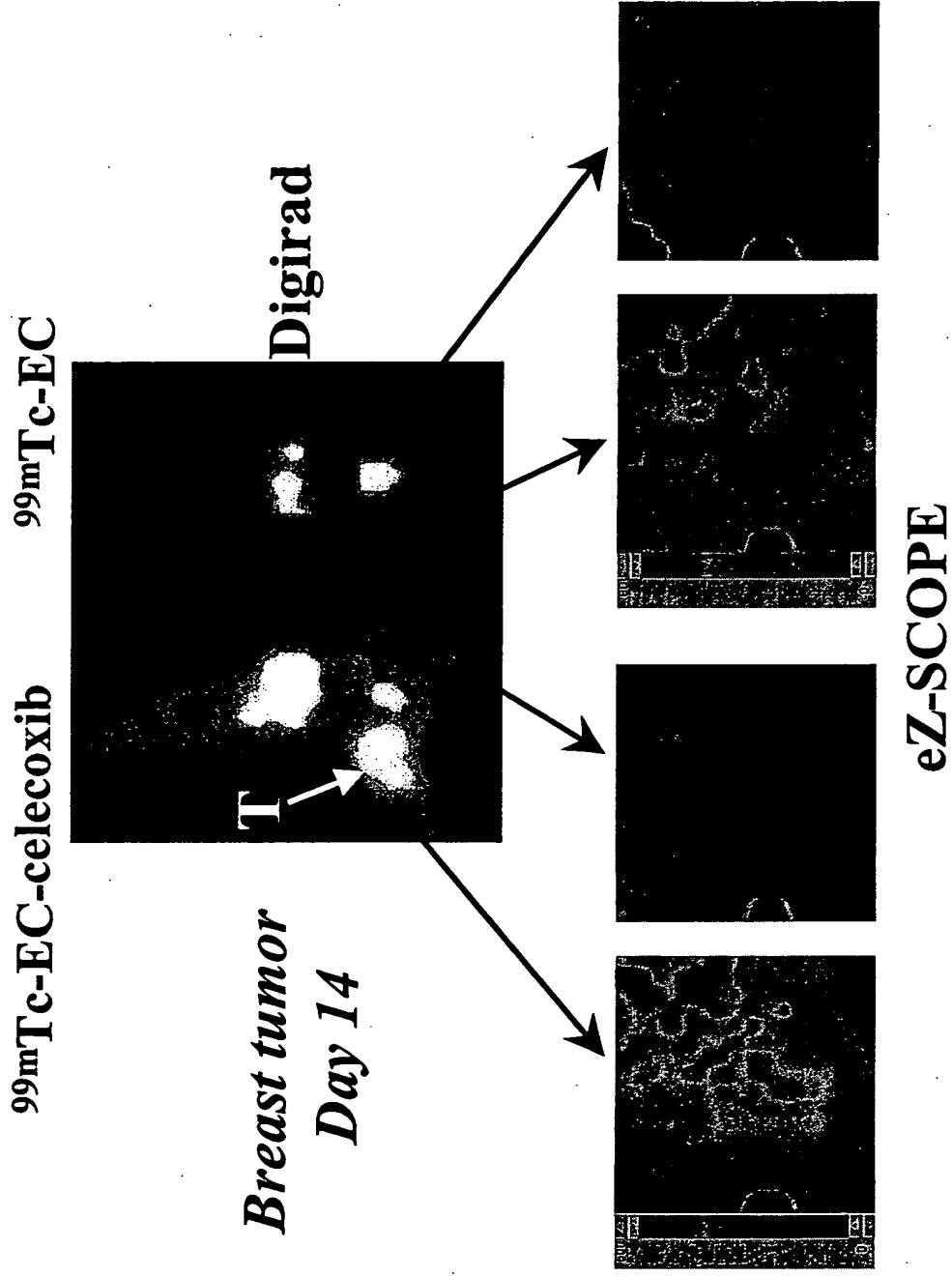


FIG. 17

EC-Thalidomide

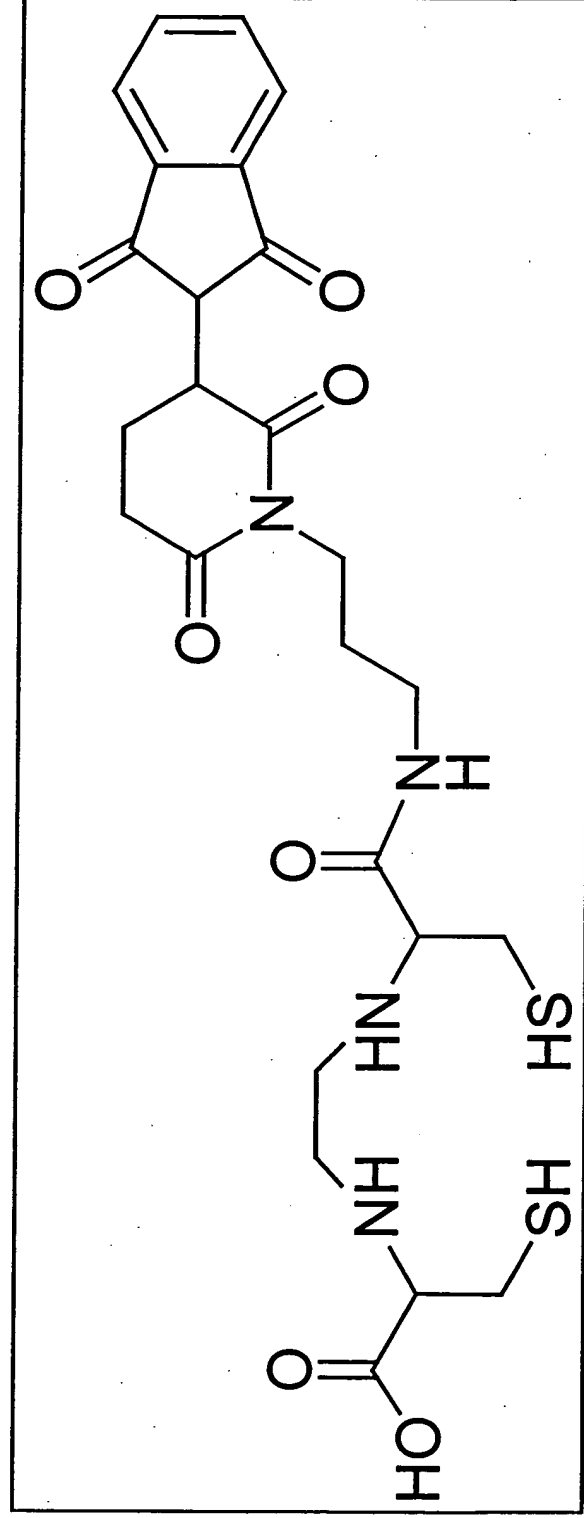


FIG. 18

EC-Quinazoline

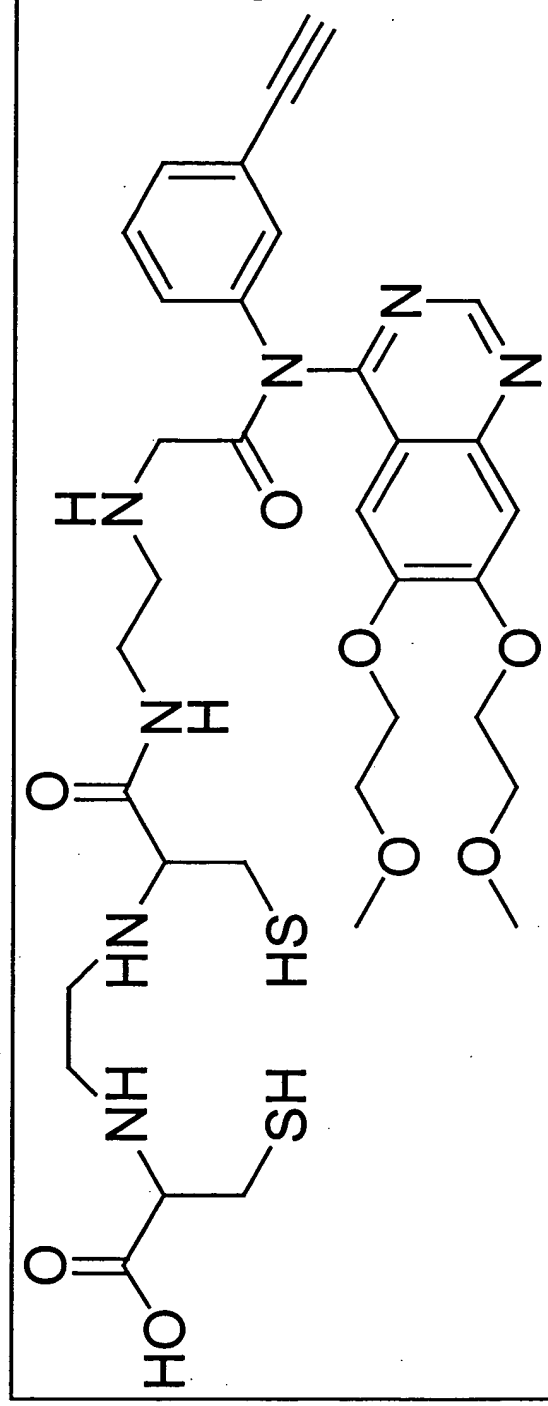


FIG. 19

Synthesis of Aminopenciclovir

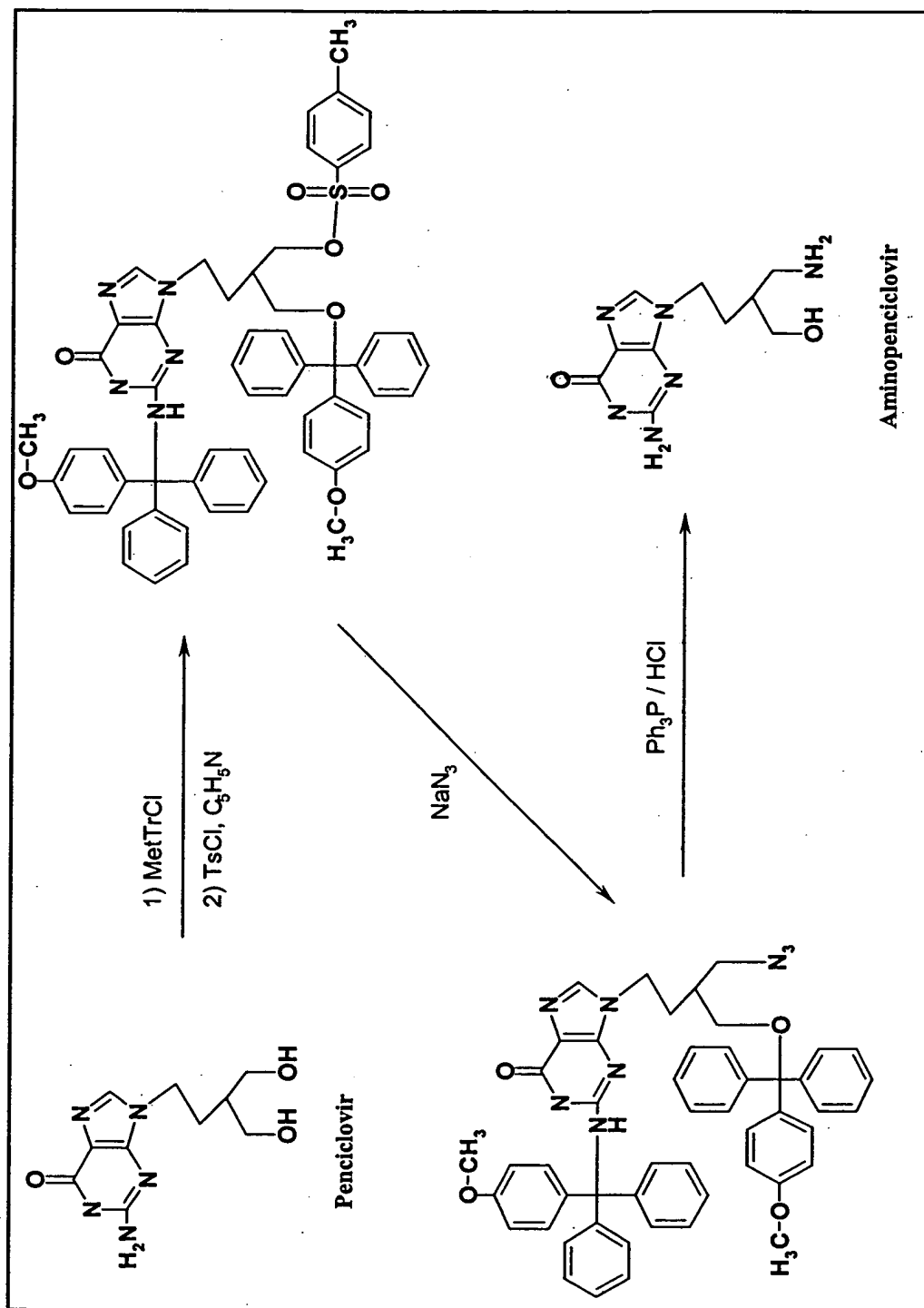


FIG. 20

Synthesis of EC-Penciclovir

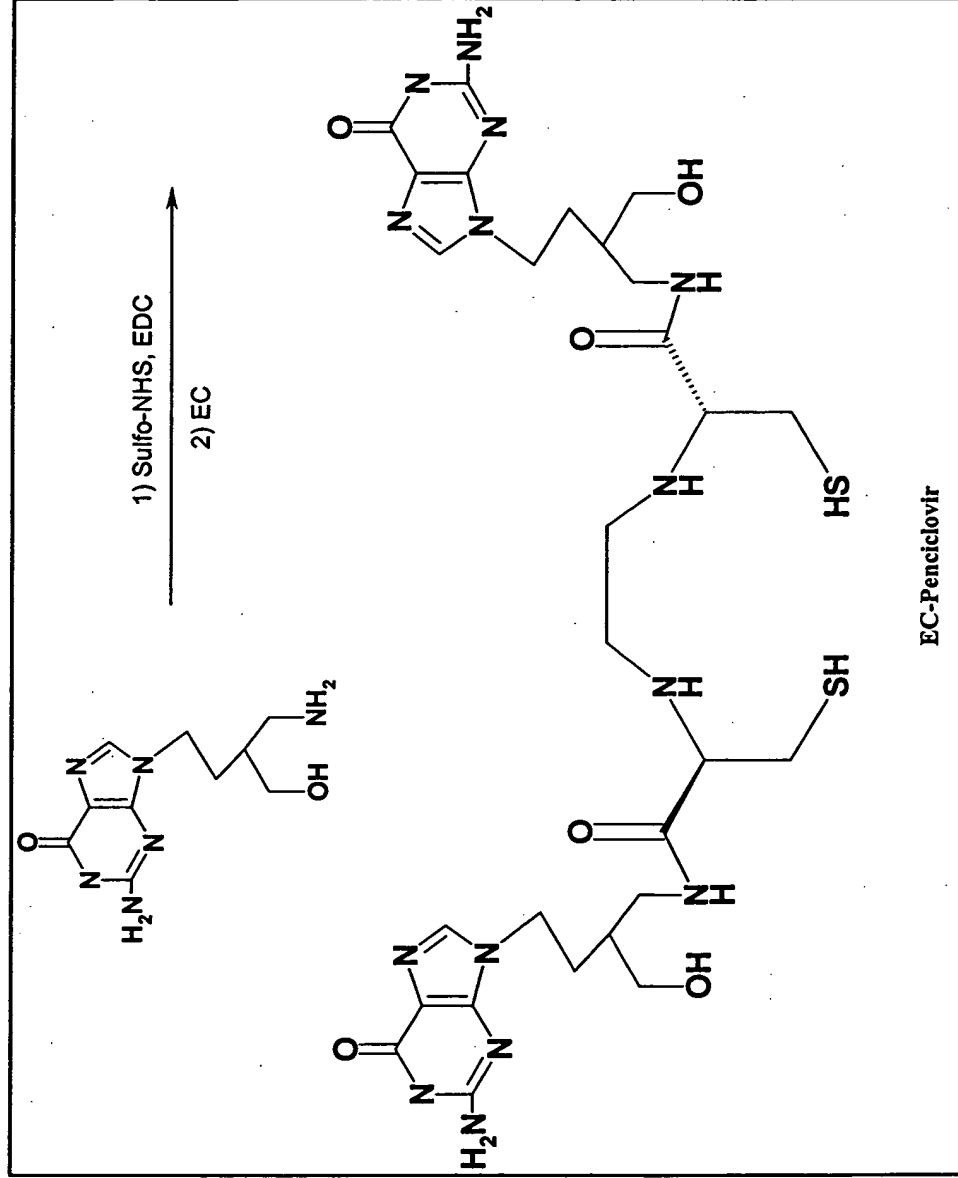


FIG. 21

In Vitro Cellular Uptake of ^{99m}Tc-EC-Penciclovir in Human Cancer Cell Lines

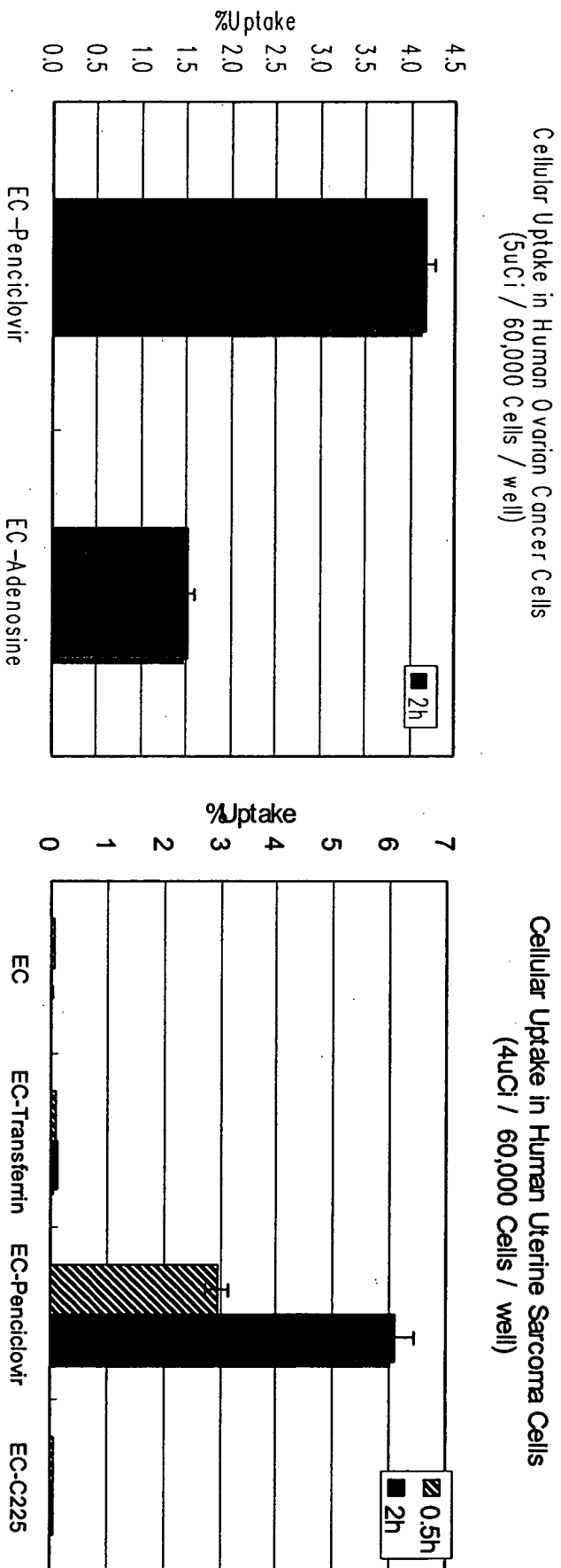


FIG. 22

Scintigraphic Images of ^{99m}Tc -EC-Penciclovir

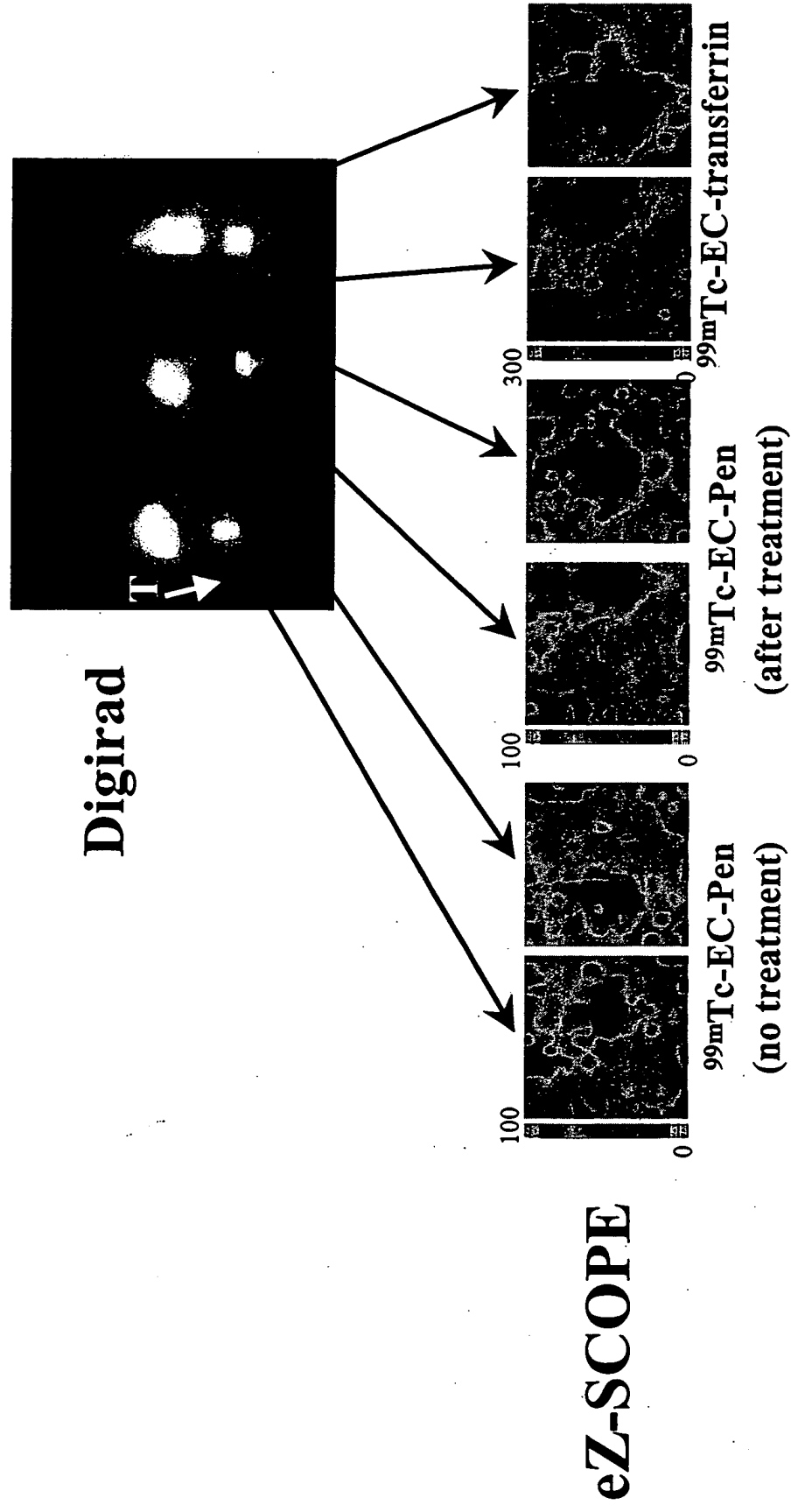


FIG. 23

Autoradiogram of ^{99m}Tc -EC-Penciclovir

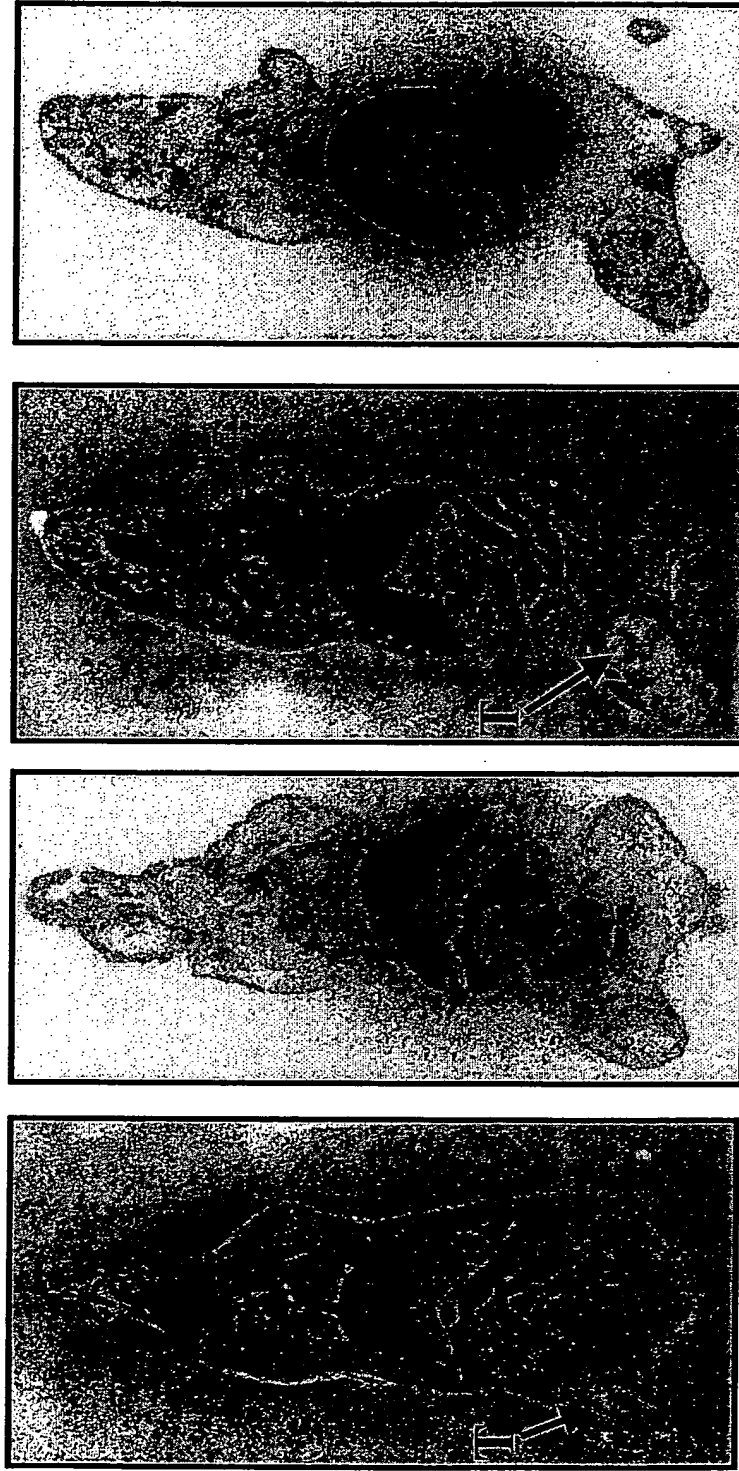


FIG. 24

EC-Deoxycytidine

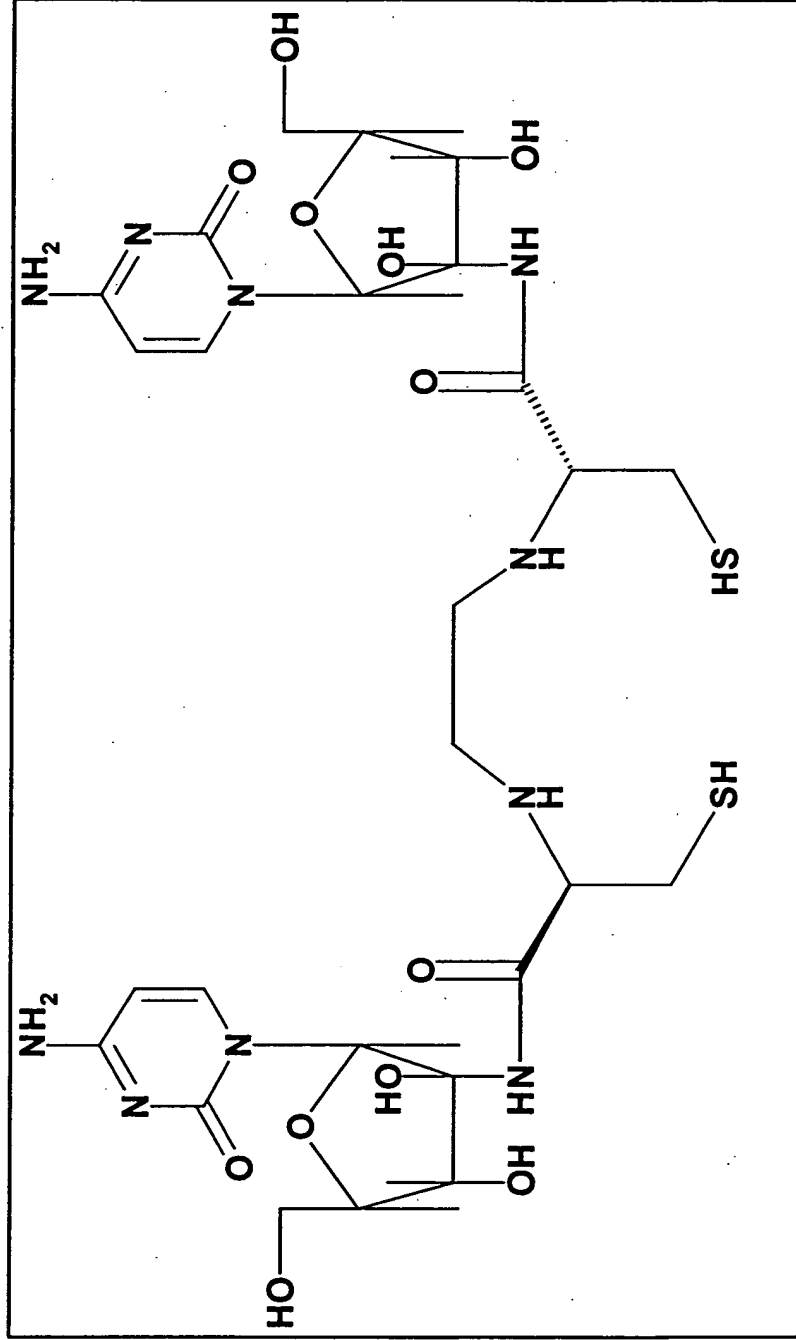


FIG. 25

EC-Capcitabine

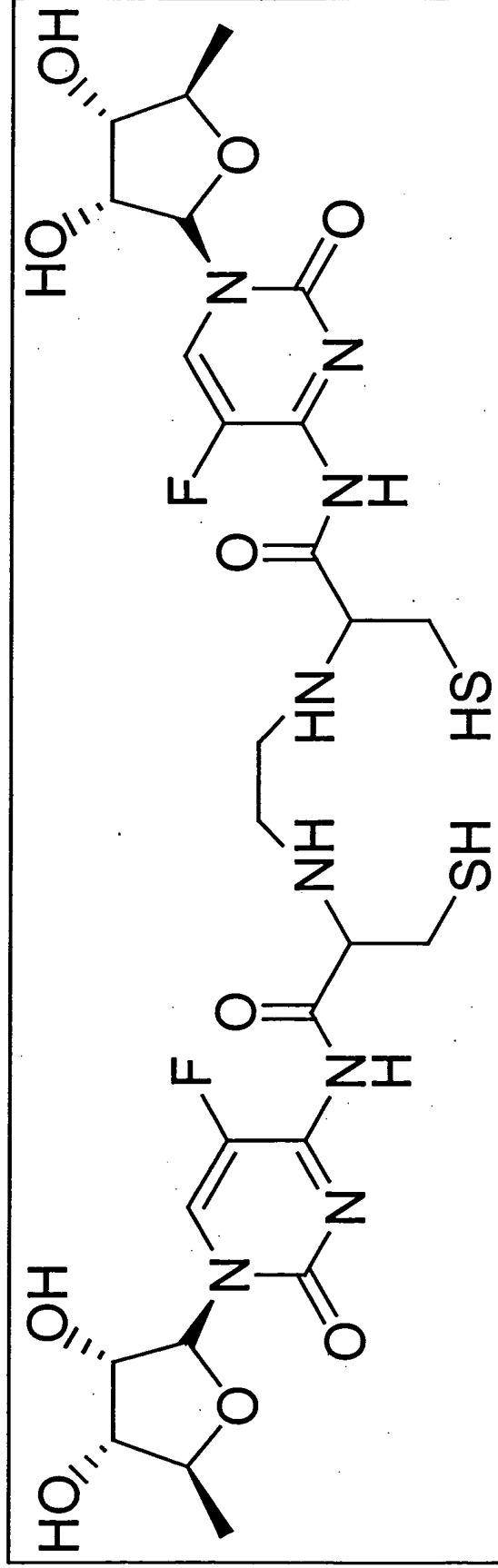


FIG. 26

Synthesis of EC-Adenosine

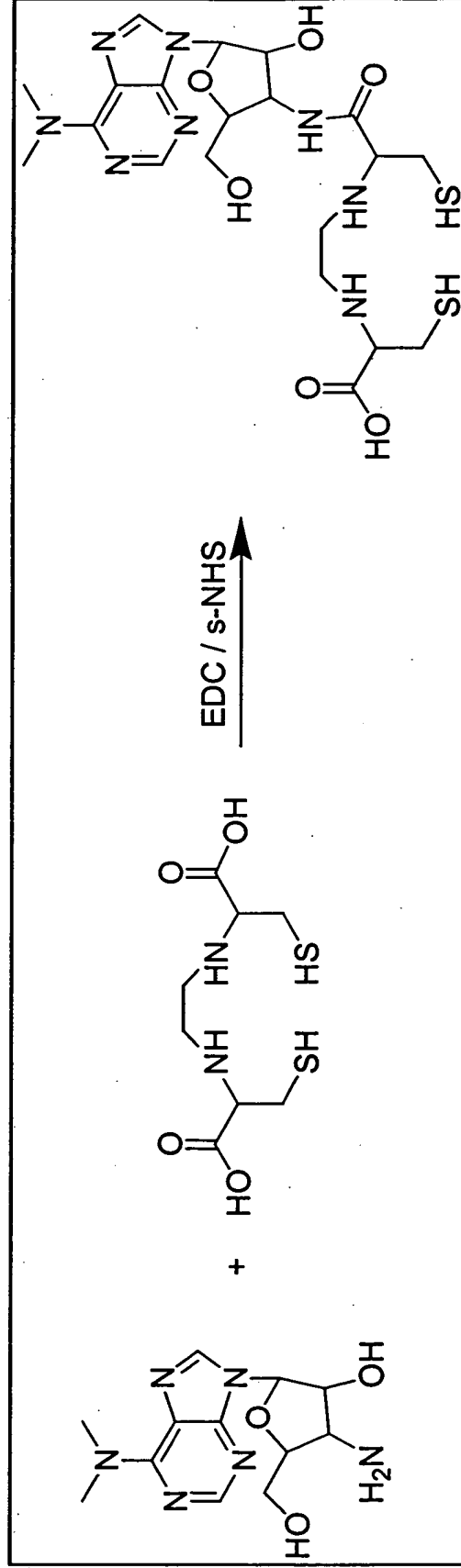


FIG. 27

Autoradiogram of ^{99m}Tc -EC-Adenosine

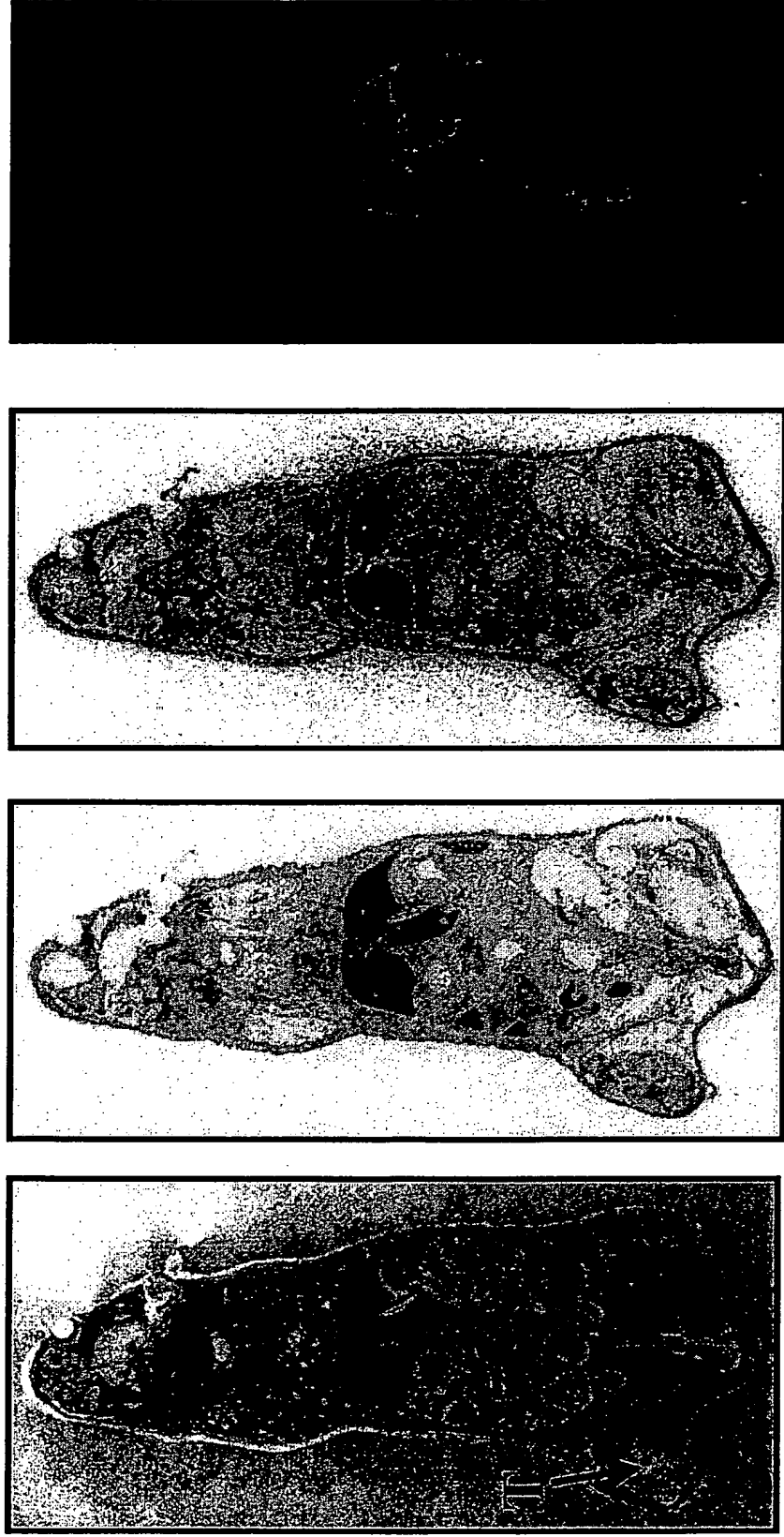
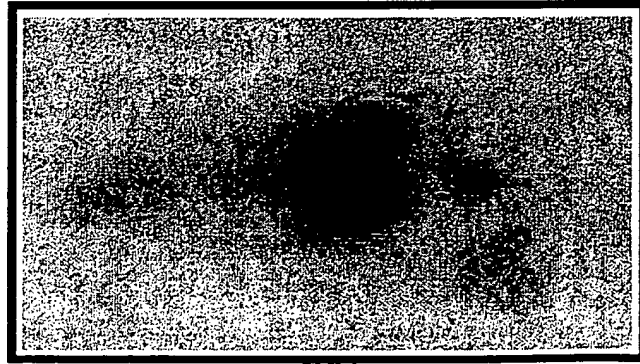


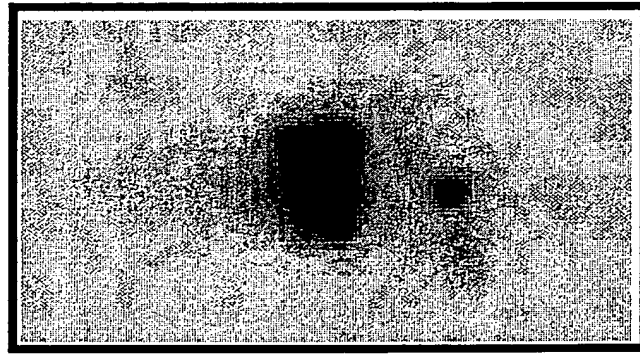
FIG. 28

Scintigraphic Images of $^{99m}\text{Tc-EC-LHRH}$

$^{99m}\text{Tc-EC}$

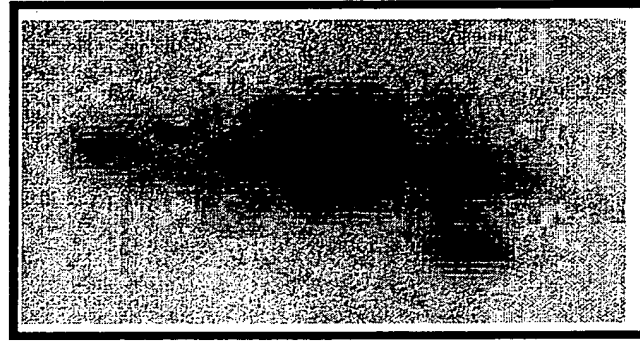


0.5

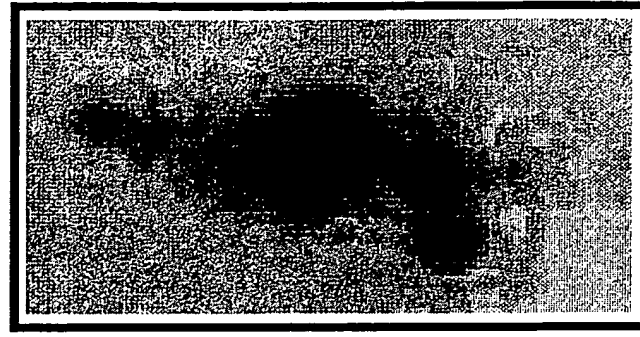


2hrs

$^{99m}\text{Tc-EC-LHRH}$



0.5



2hrs

FIG. 29

In Vitro Cellular Uptake of ^{99m}Tc-EC-Agents In Human Ovarian Cancer Cells at 2 Hours

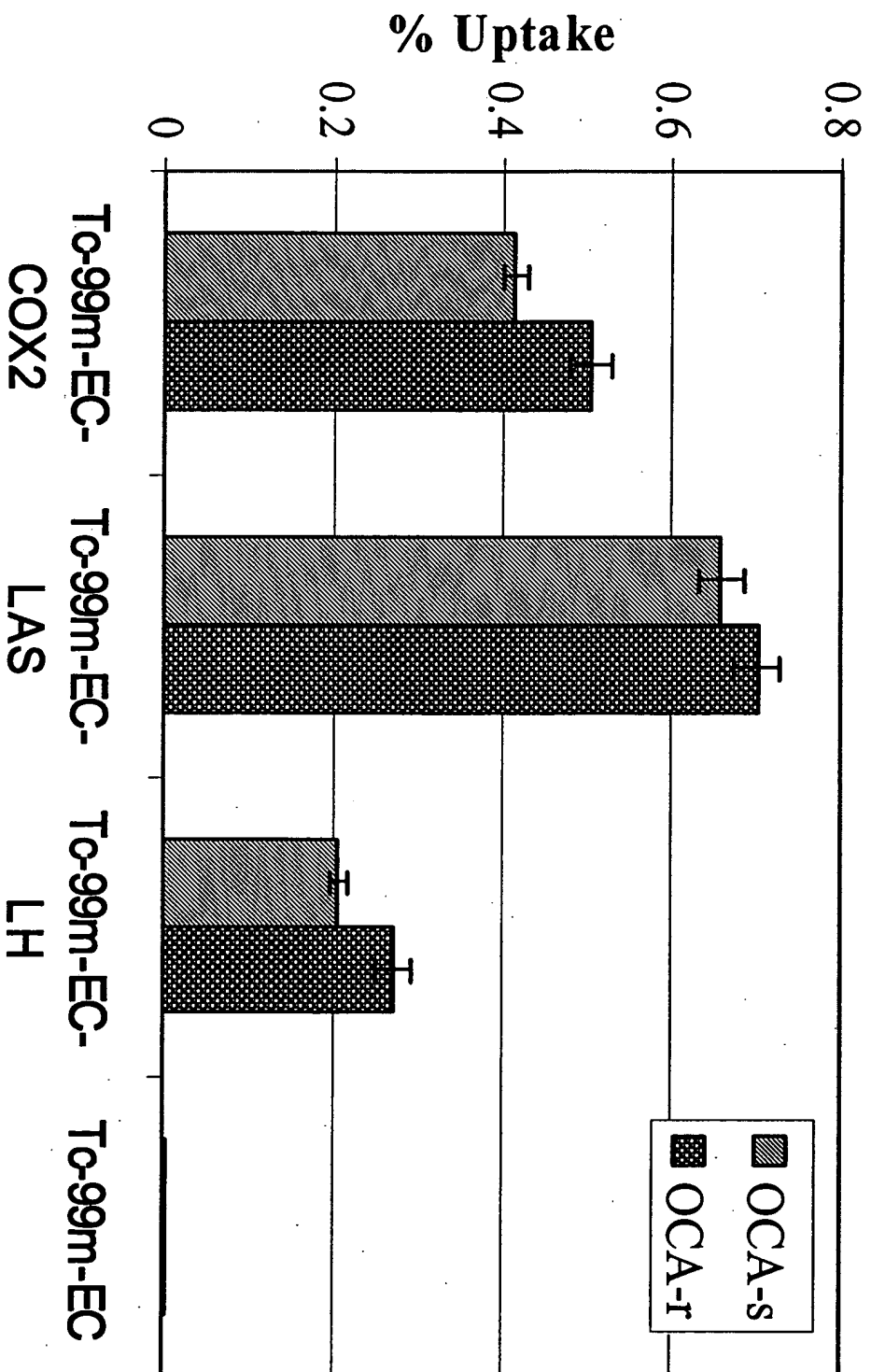


FIG. 30

Scintigraphic Images of $^{99m}\text{Tc-EC-LH}$

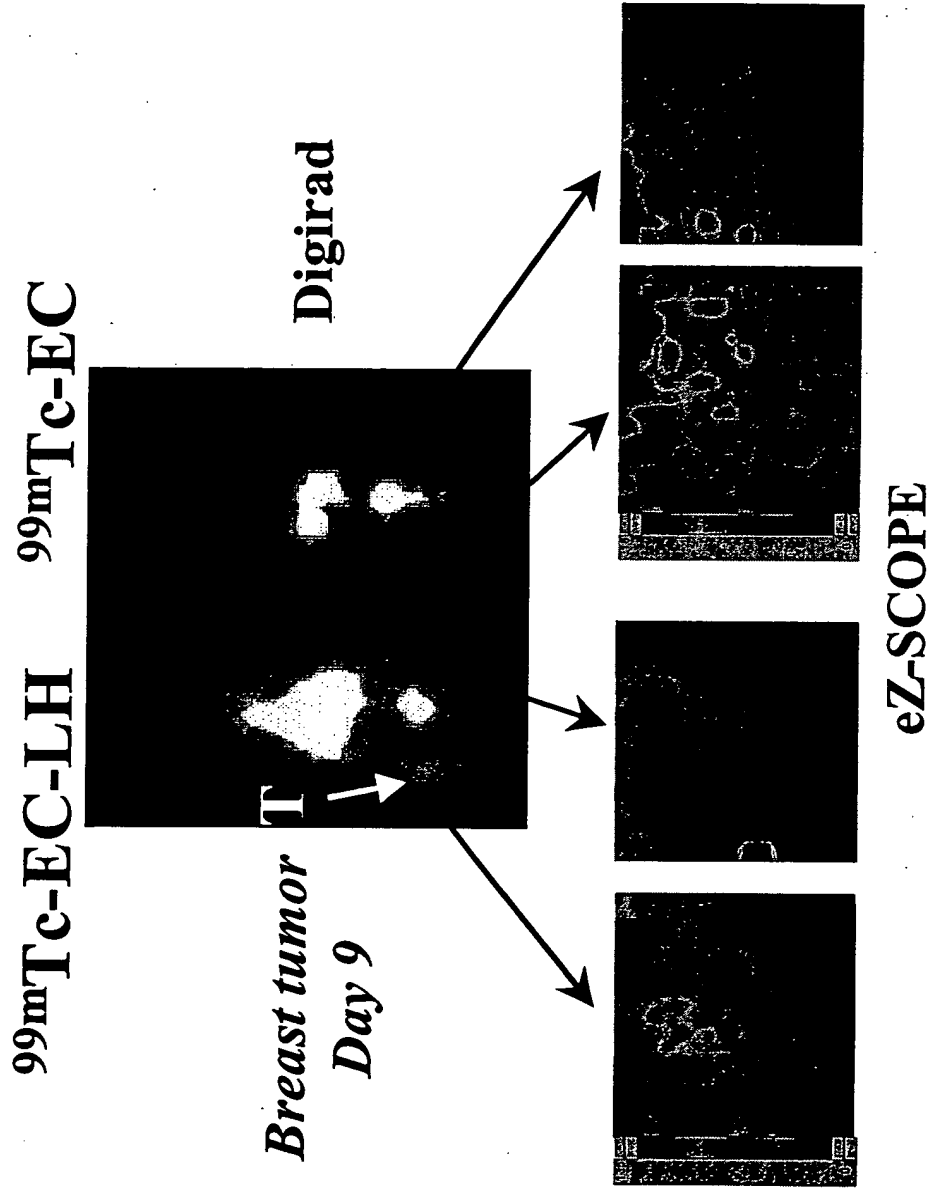


FIG. 31

Autoradiogram of ^{99m}Tc -EC-Transferrin

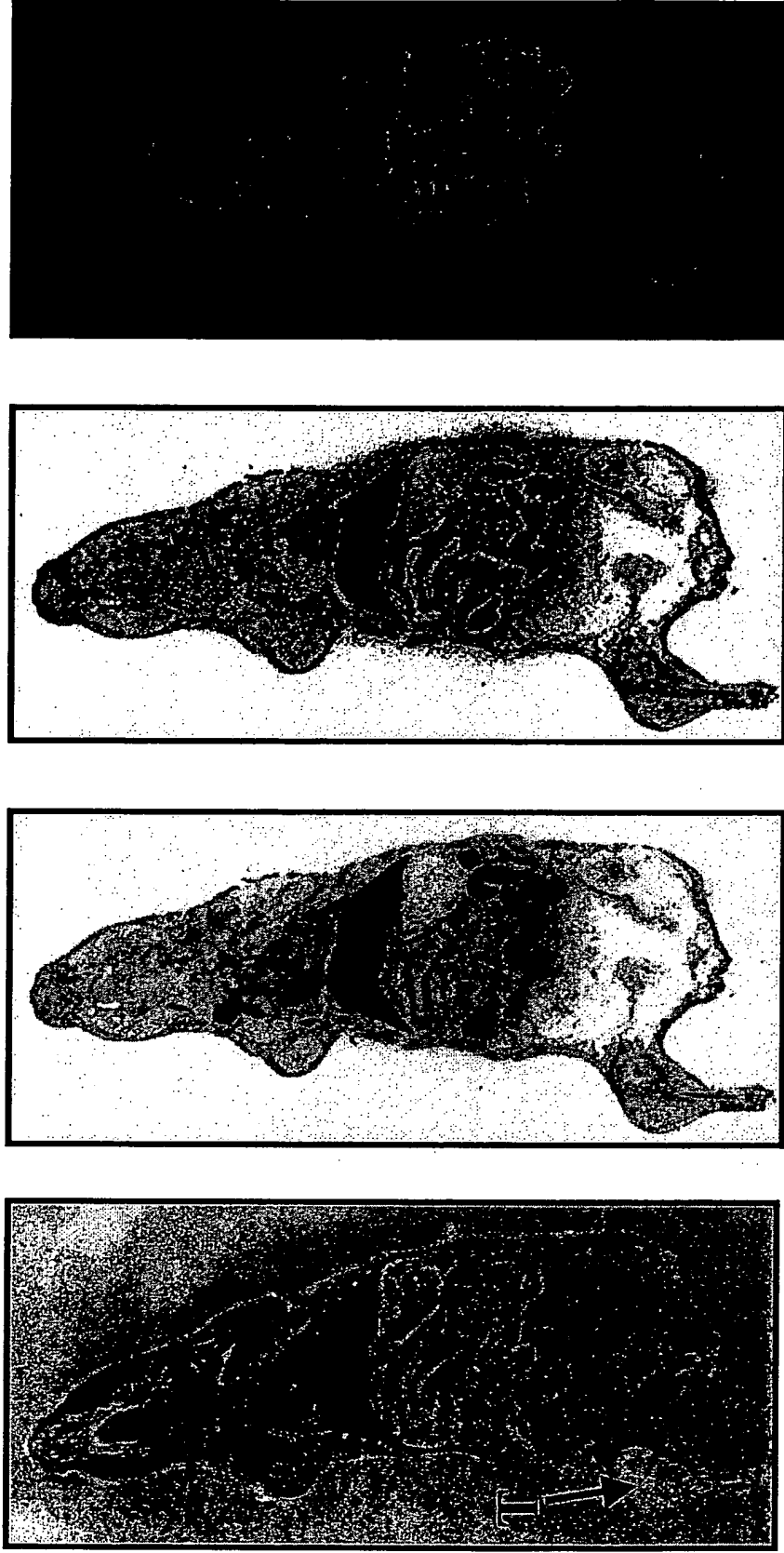


FIG. 32

Synthesis of EC-TML

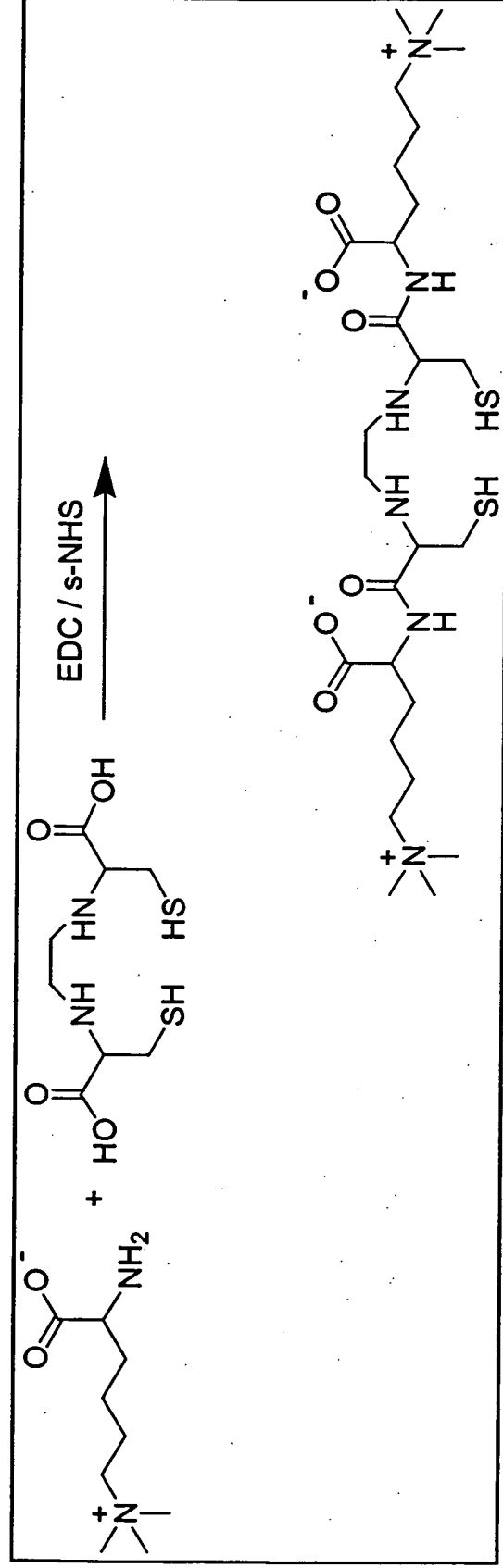


FIG. 33

EC-TML
CHEMIST 5-2-02 10 JP 3 (0.268) Cm (1:6)
189.7

2: Scan ES+
9.00e5
490.04±1.28

A:

100

50

0

174.2 190.8 193.3 161.0 246.0 425.9 432.4 489.5 491.1 575.0 629.8-715.9

200 400 600 800 1000 1200 1400 1600 1800 2000

m/z

Chemical structure: C[N+](C)(C)CCCCC(=O)N[C@@H](CCCCS)NC(=O)NCCNC(=O)N[C@@H](CCCC[N+](C)(C))C(=O)[O-]

$C_{26}H_{52}N_6O_6S_2$
Exact Mass: 608.34
Mol. Wt.: 608.86
C, 51.29; H, 8.61; N, 13.80; O, 15.77; S, 10.53

Heart-to-Muscle & Tumor-to-Muscle Ratios Of ^{99m}Tc -EC-TML In Breast Tumor-Bearing Rats

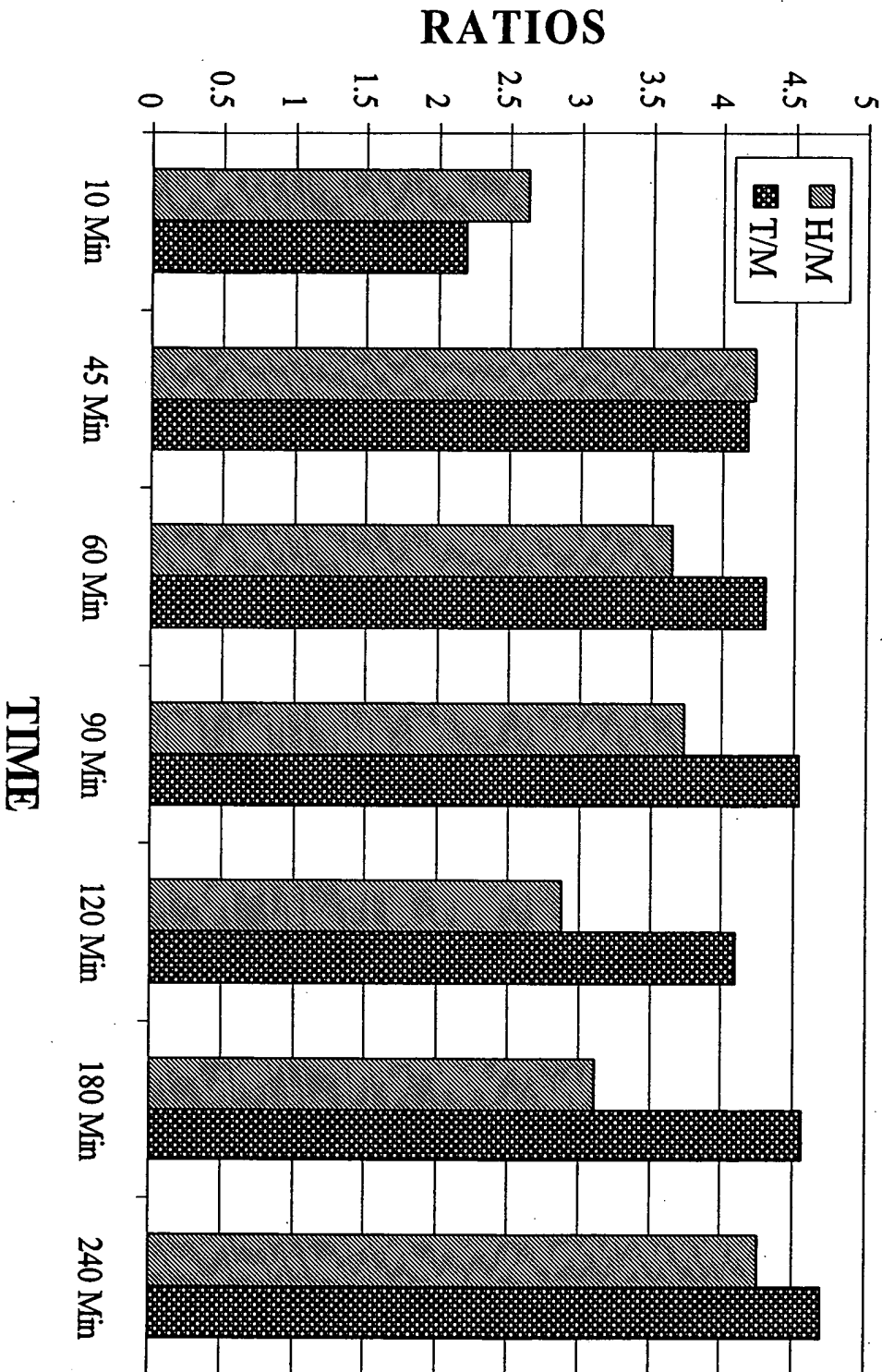


FIG. 35

Scintigraphic Images of ^{99m}Tc -EC-TML

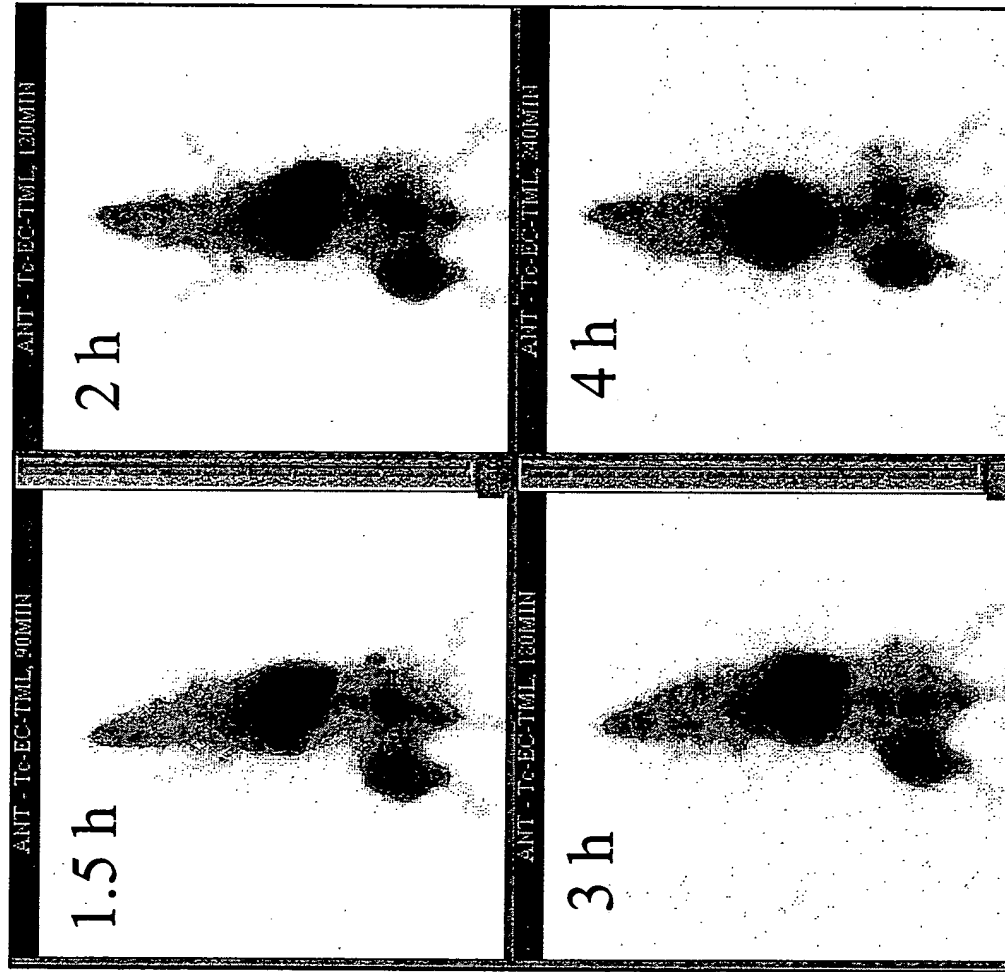


FIG. 36

Synthesis of EC-Pyridoxal

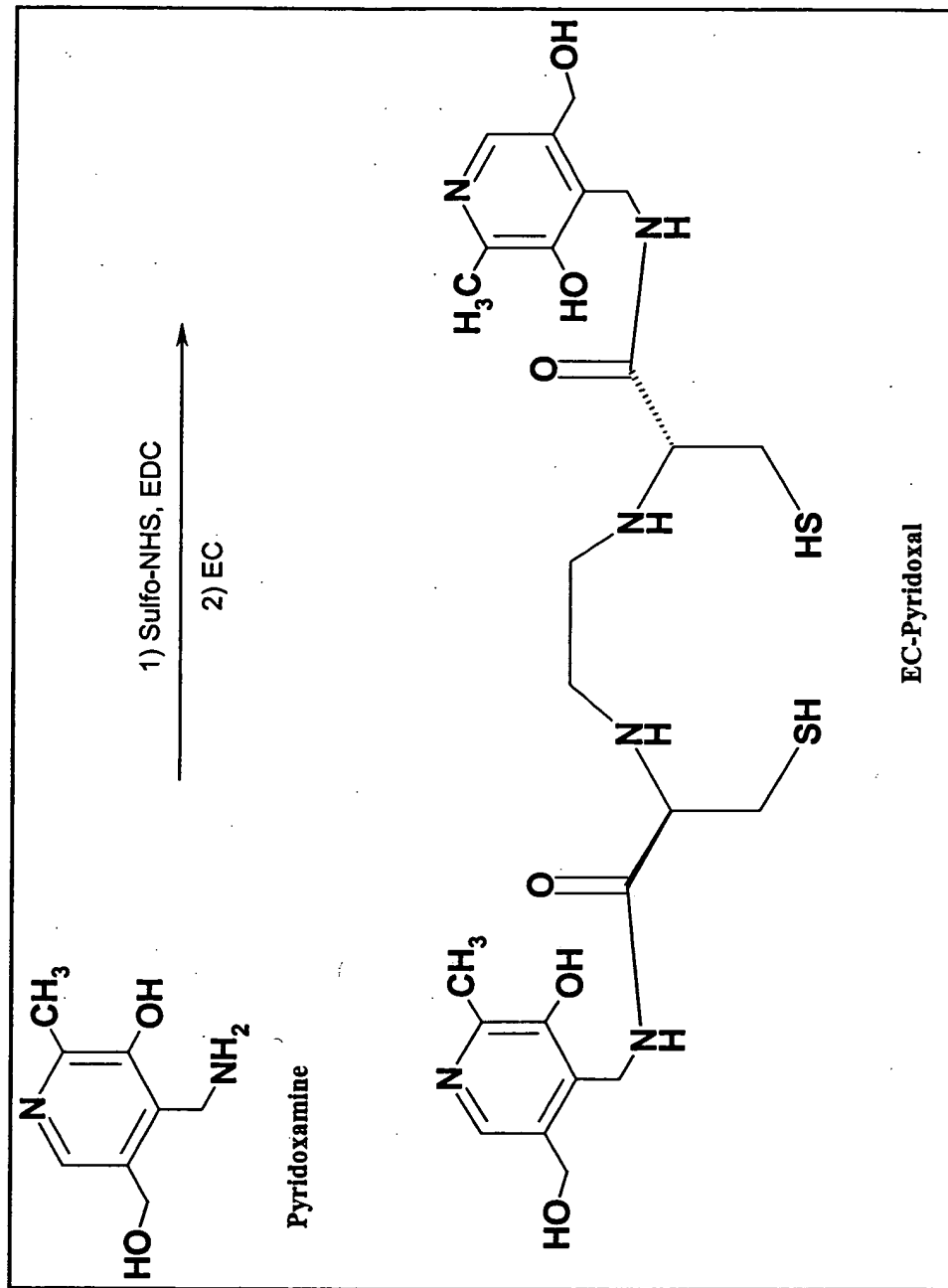


FIG. 37

Synthesis of $^{99\text{m}}\text{Tc}$ -Fullerene-EC-Drug Conjugates

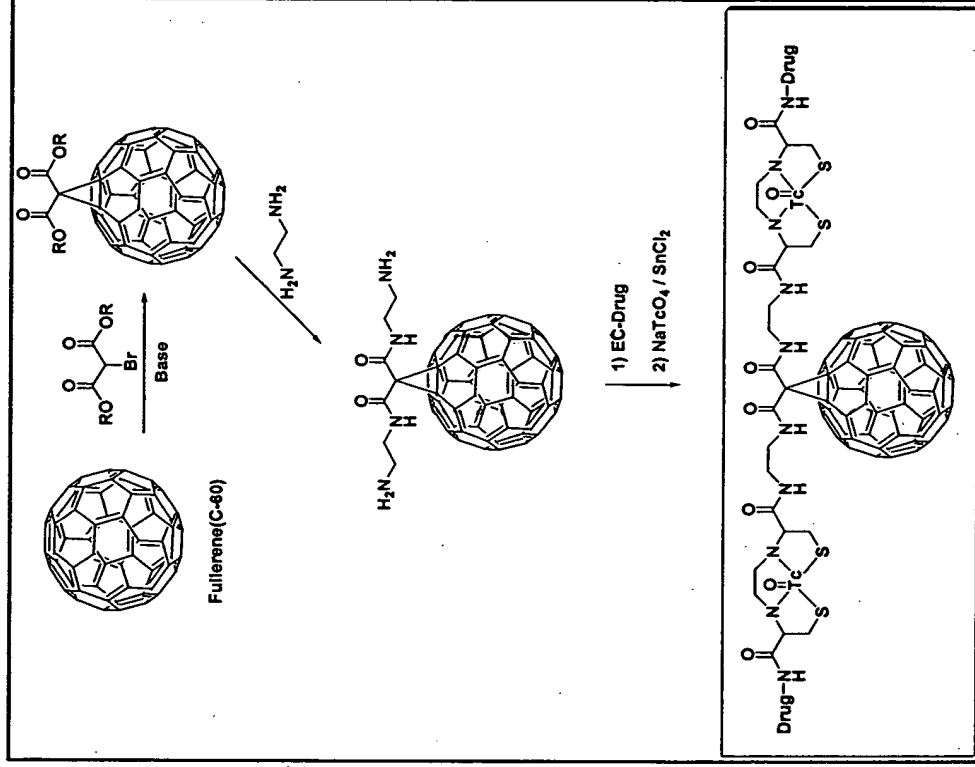


FIG. 38

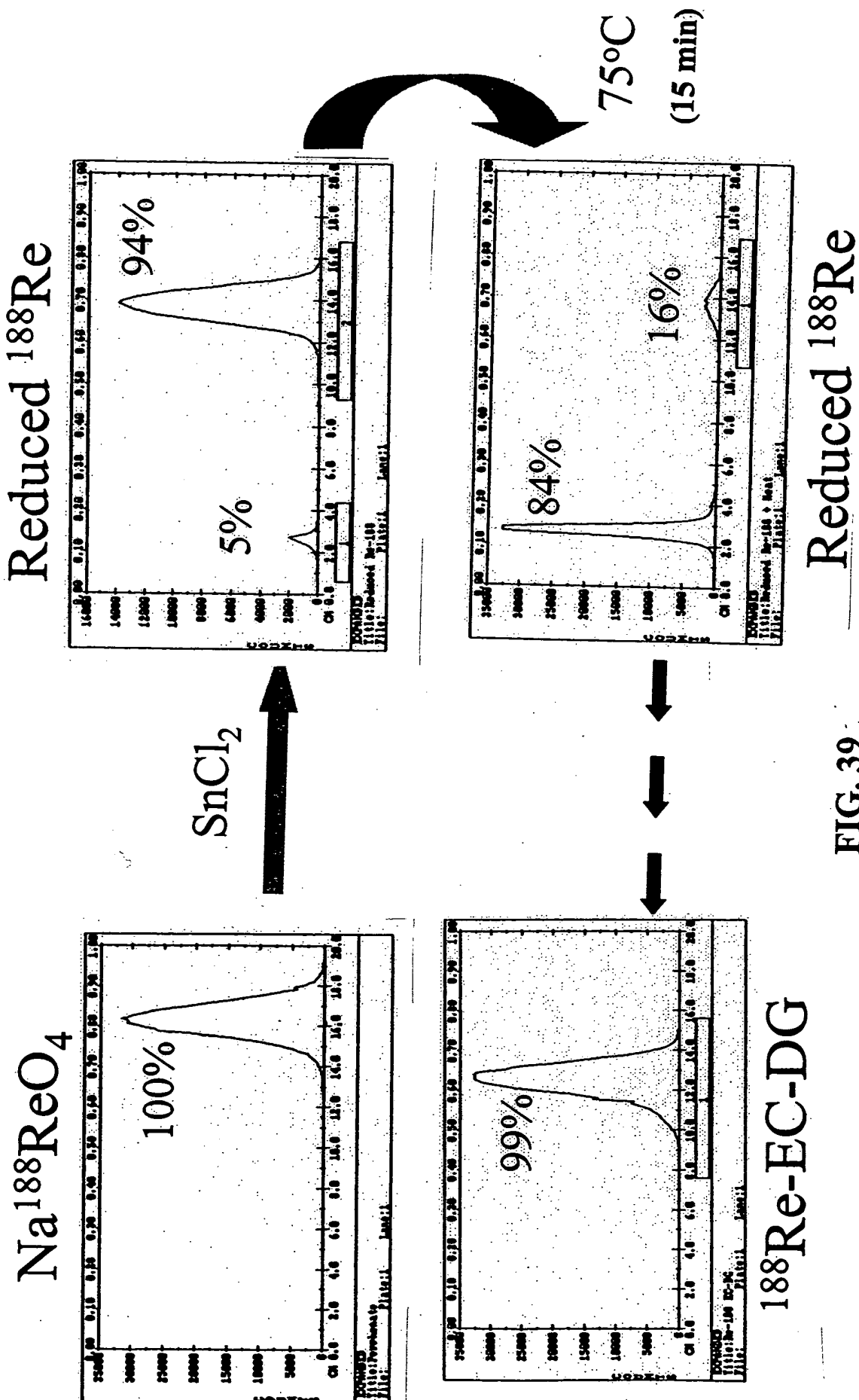
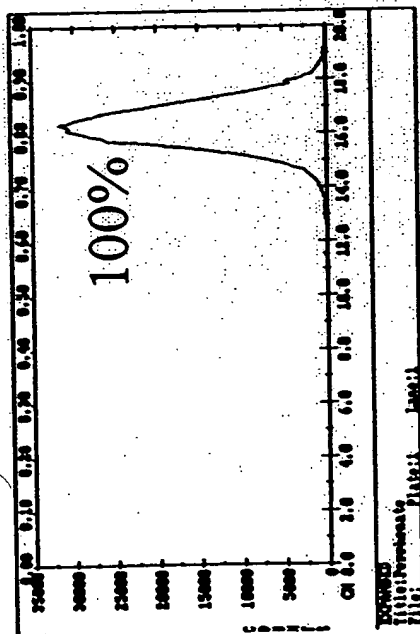


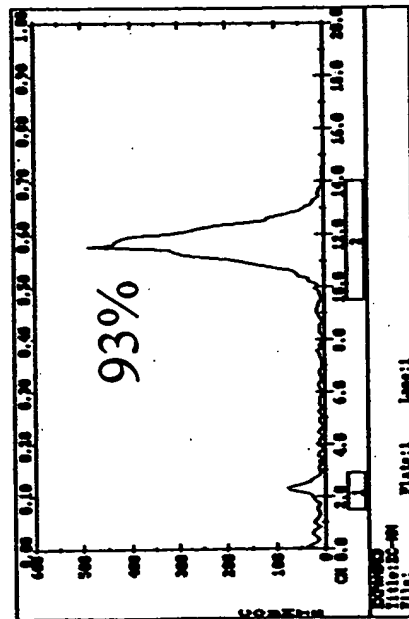
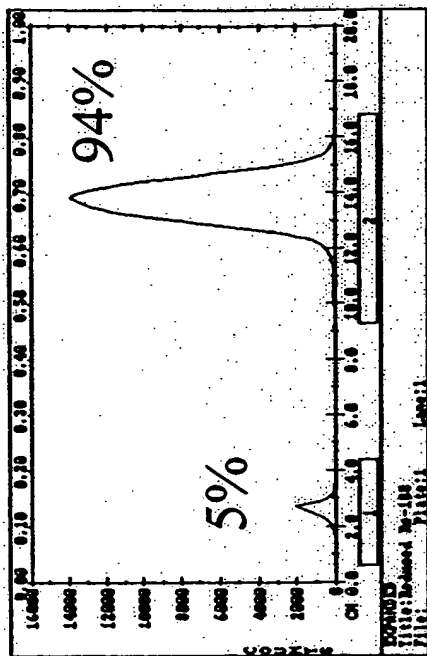
FIG. 39

$\text{Na}^{188}\text{ReO}_4$

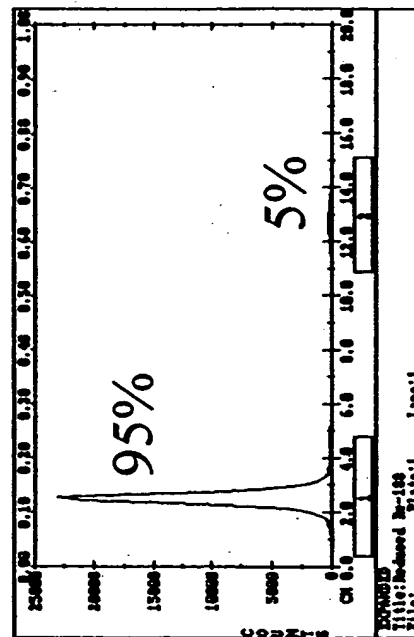


SnCl_2

Reduced ^{188}Re



$^{188}\text{Re-EC-MN}$



Reduced ^{188}Re

FIG. 40

Cellular Uptake of EC-Guan
in Human Lung Tumor Cells (A549)
(4uCi each well)

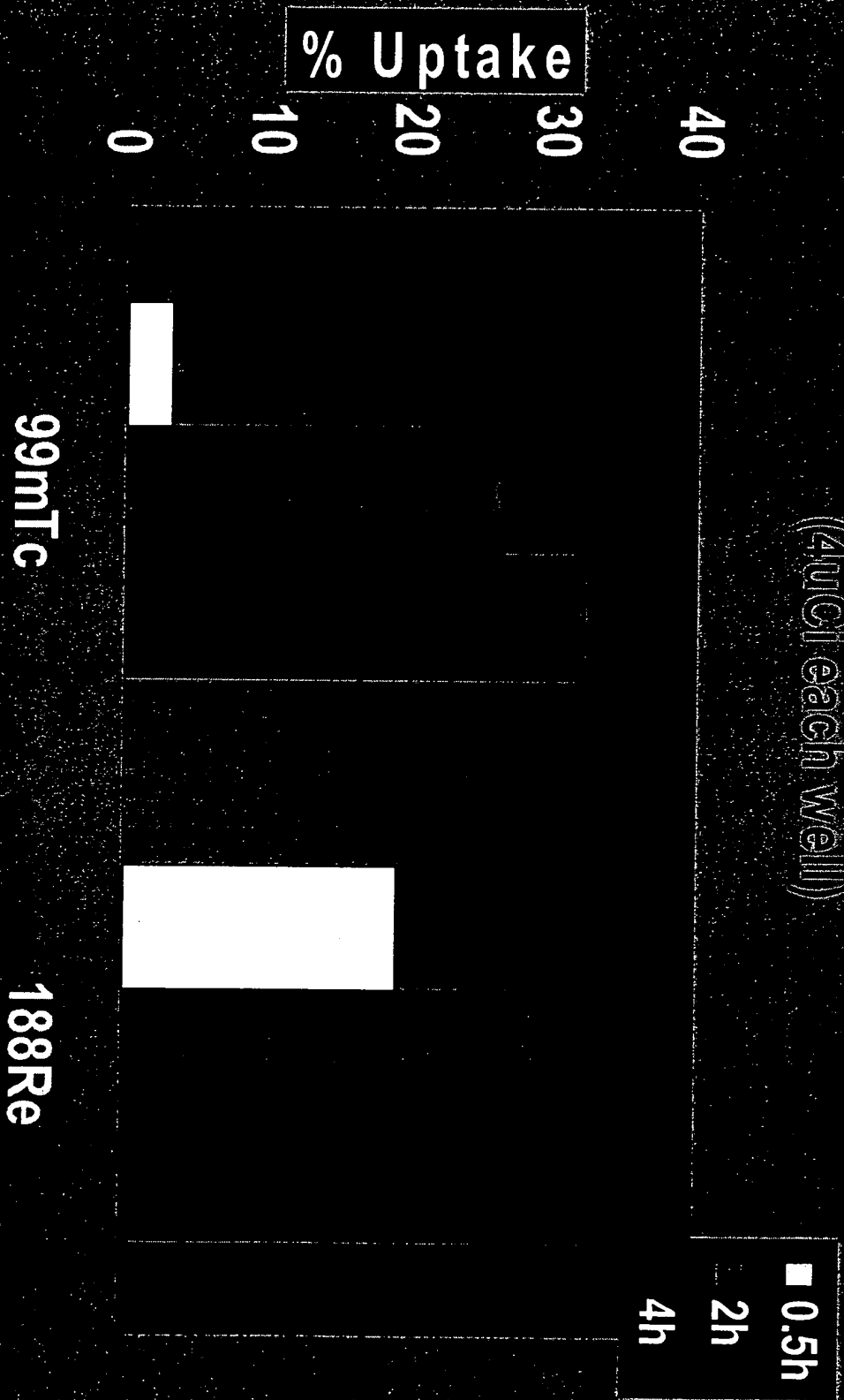


FIG. 41

Cellular Uptake in Breast Cancer Cells (RBA CRL-1747, 4 uCi/well)

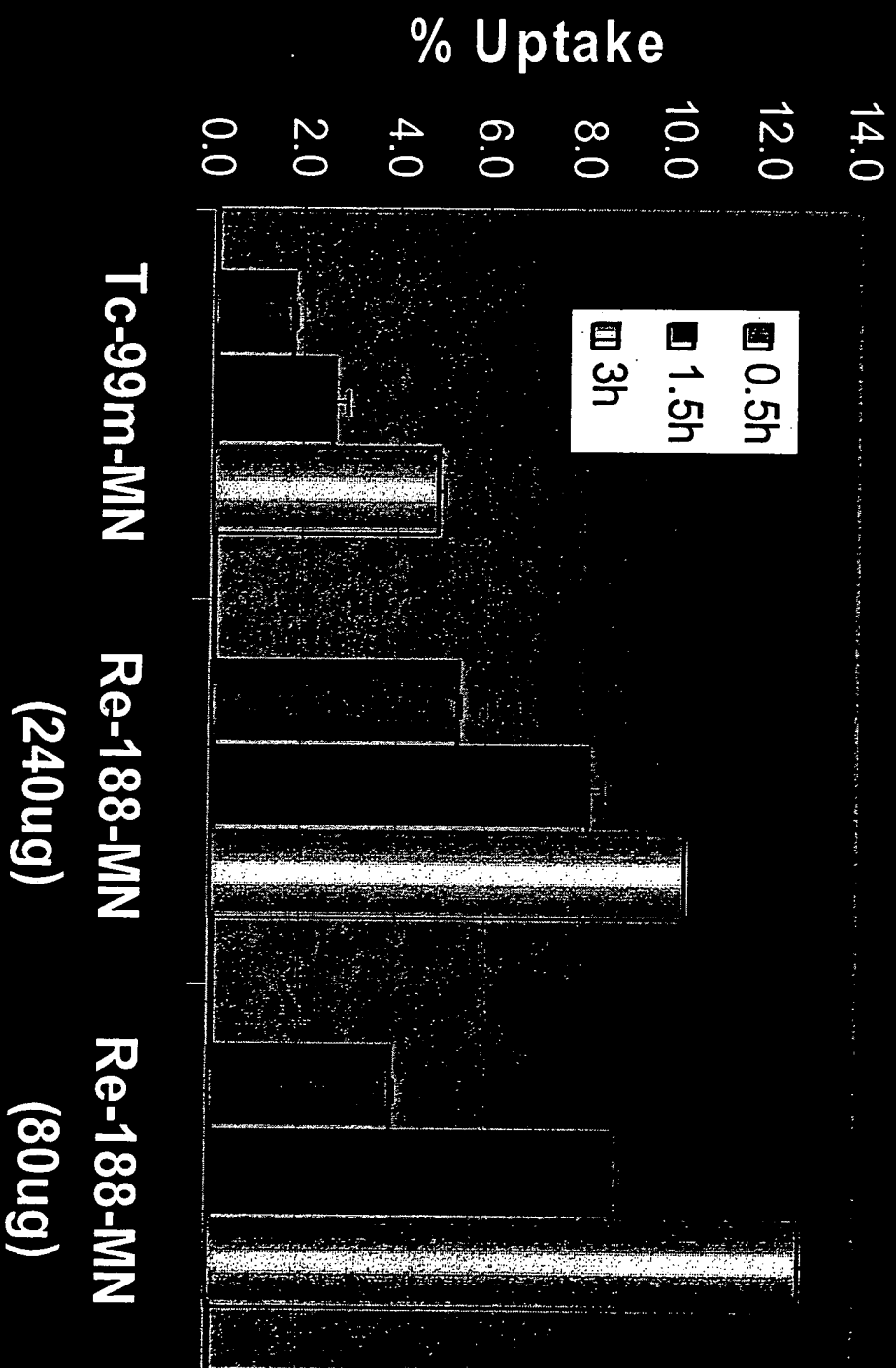


FIG. 42

Cellular Uptake Study of ^{99m}Tc-EC-DG Kit in 13762 Cell Line

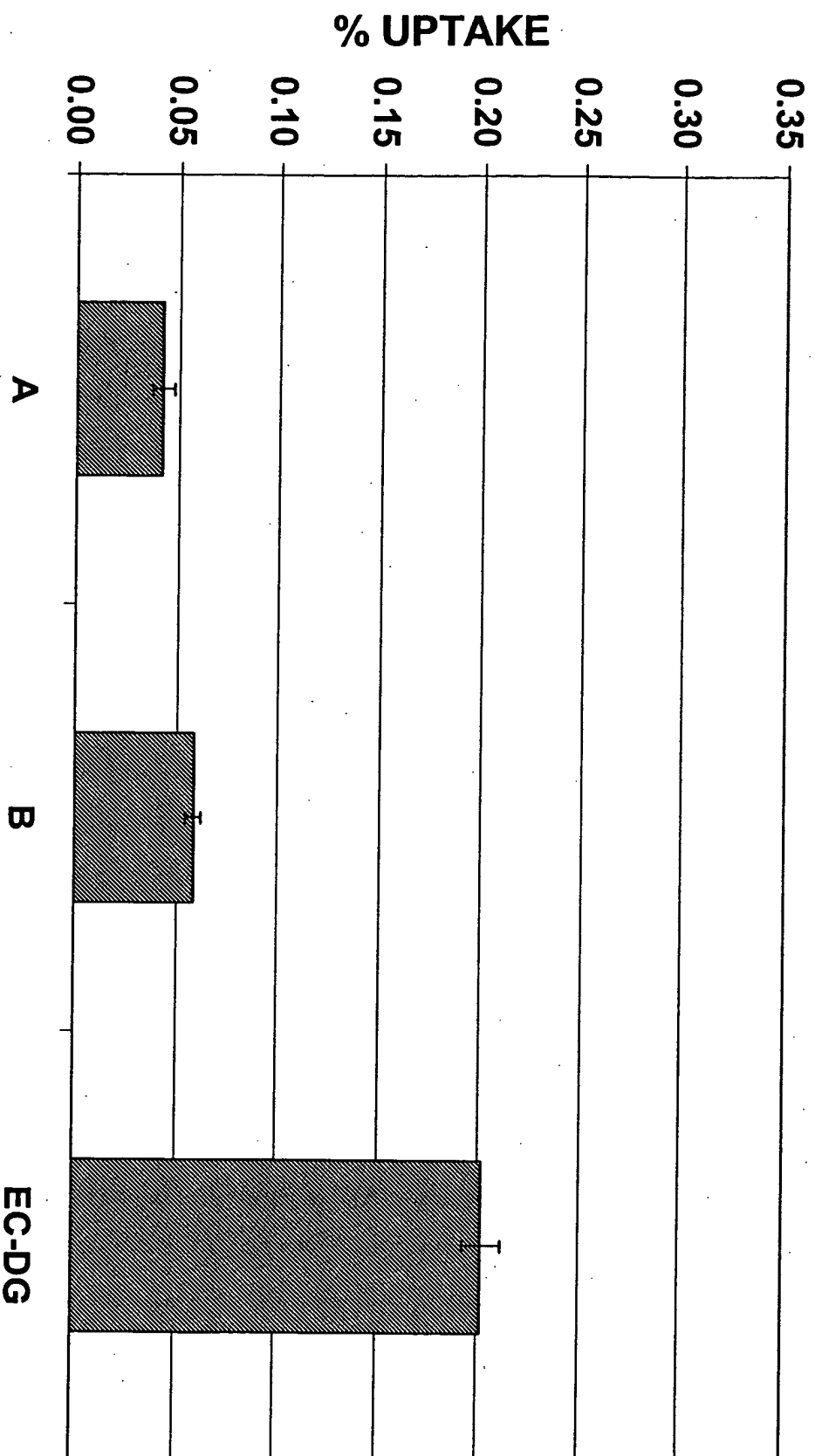


FIG. 43A

Cellular Uptake Study of ^{99m}Tc-EC-DG Kit in 13762 Cell Line

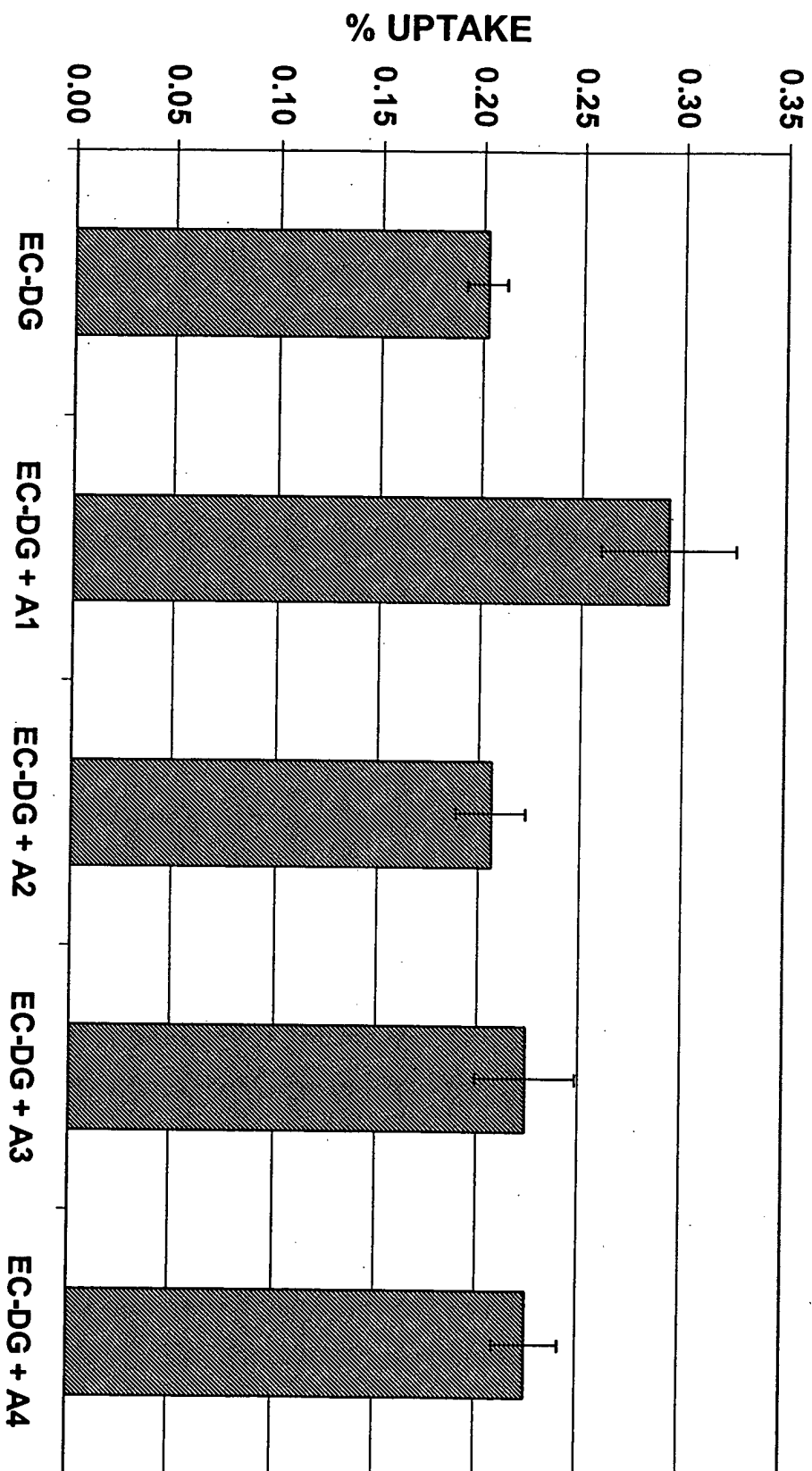


FIG. 43B

Cellular Uptake study of ^{99m}Tc-EC-DG Kit in 13762 Cell Line

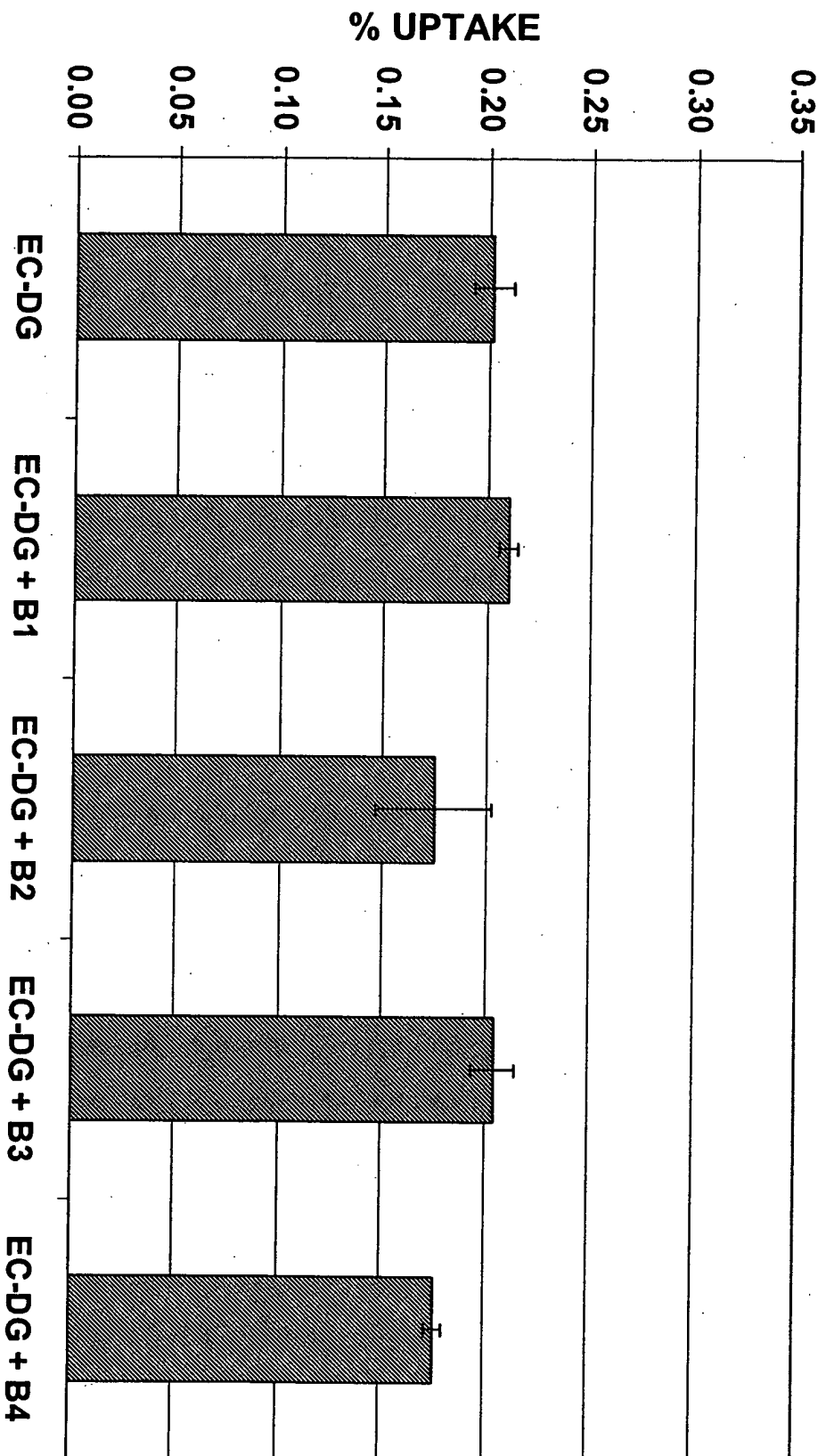


FIG. 43C